VILLAGE OF OSSINING	BOARD OF TRUSTEES
In the Matter of the Application of OSSINING RIVER ASSOCIATES, INC. , Petitioner,	PETITION to Adopt Zone Text Amendments
To adopt zone text amendments which would be applicable in the CDD and PW zoning Districts	•

THE PETITIONERS, by and through their attorney, Joseph P. Eriole, Esq., a duly licensed attorney in the State of New York, set forth the following as a Petition for relief herein:

FIRST: The Petitioners are the record owners of the property in connection with which this Petition is made. **Exhibit A** (the "Property").

SECOND: The Property consists of approximately 14.122 unimproved acres, primarily in the CDD zoning district, with 3.12% in the S-125 zoning district.

THIRD: The subject premises is depicted on the current Village of Ossining Tax Map as Section, Block and Lot Number 89.15-1-73.

FOURTH: The Property is bounded by property in the S-125 zone to the north, the GB zone to the east, the CDD zone to the south, and the S-125 and CDD zones to the west. Existing Conditions Map attached hereto as **Exhibit B**.

FIFTH: The Petitioner proposes to develop the property by constructing 198 residential units with amenities for its residents, as well as constructing a new firehouse, more or less on the site of the existing firehouse on Snowden Avenue, entirely at the Petitioner's expense, and under the direction and specifications of the Village Manager, Engineer, and other designees as the Village Board so designates (the "Project"). The Conceptual Site Plan and other renderings and graphics depicting the proposed development are attached hereto as **Exhibit C.**

SIXTH: The Petitioners requests that zone text amendments be adopted which would provide for an overlay district applicable in the CDD and PW districts under certain strict and

specific criteria, each of which is specially designed to enhance and increase public open space, affordable housing opportunities, and public capital improvement while ensuring careful development at a density in keeping with the surrounding zoning and recent approved projects in the vicinity. The proposed text amendments are attached hereto as **Exhibit D**.

SEVENTH: The Petitioner has made a concurrent application to the Planning Board for Site Plan review (all other permits or approvals under the Planning Board's purview are generally referenced here as part of the "Site Plan Review" process). A Long Form EAF, Fiscal Impact Analysis, and Traffic Study, have also been submitted. **Exhibit E**.

EIGHTH: Petitioner submits that the zone text amendment and site plan review of the Project should be considered jointly under SEQRA to avoid unlawful segmentation (the "Action"), and that the Action will be a Type I Action with coordinated SEQRA Review under the applicable regulations of the Environmental Conservation Law of New York State [6 NYCRR Part 617 et. seq.

NINTH: Procedurally, the Petitioner respectfully submits that the review entails concurrent review of the Petition and the Site Plan as follows:

(i) Receipt of the Petition by the Village Board, referral of the Petition to the Planning Board for its recommendation on the zone text amendments, and makes any other referrals required for such action under state or local law;

(ii) If the Village Board determines that it would like to serve as Lead Agency under SEQRA, it should circulate its notice of intent to act as lead agency at the time of the referral to the Planning Board;

(iii) The Planning Board acknowledges receipt of the Site Plan Review application and the referral from the Village Board. If the Village Board has not declared its intent to act as lead

agency, the Planning Board should circulate its notice of intent to act as lead agency at the time of the receipt of the site plan application and Village Board referral;

(iv) The Planning Board conducts the SEQRA and Site Plan reviews concurrently, in order to take the requisite hard look at the environmental impacts of the zone text amendment vis-à-vis the proposed development;

(v) After conducting the appropriate impacts analysis and conducting the legally required public review process including but not limited to public hearings, the Planning Board, when it deems appropriate under the law, will make a SEQRA determination of significance, culminating in either a Negative Declaration or an Environmental Findings Statement;

(vi) Once the SEQRA process has been concluded, the Planning Board will make a recommendation on the zone text amendments to the Village Board. The Village Board will then conduct a public hearing on the rezoning, unless that public hearing has been jointly held as part of the Planning Board's SEQRA and Site Plan review process;

(vii) With SEQRA and the Public Hearing on the zone text amendments concluded, the Village Board may vote on the adoption of the zone text amendments;

(viii) If the zone text amendments are adopted, the Planning Board may then vote on the Site Plan Application.

TENTH: It is respectfully submitted that the proposed zone text amendments are in keeping with the purposes of the Village of Ossining zoning ordinance generally, with the principles and purposes of the CDD and PW districts in particular, and with the Village of Ossining Comprehensive Plan and all other planning documents of the Village and the region.

ELEVENTH: It is respectfully submitted that the proposed rezoning serves the purposes, health, welfare, and safety of the Village in general and all of its residents, in that it encourages

appropriate high density where that density can be coupled with open space, affordable housing, and public capital projects or improvements which exceed those benefits under the current zoning code, while still preserving the identified features of properties within those districts. As an overlay district, it will be available to any property owner who can meet the criteria, and not merely to the Petitioner; however, the standards which must be met to qualify for the proposed overlay are so high, and require such a substantial commitment of the developer to the public good at the developer's expense, that the environmental impacts of the zone text amendments are easily contemplated, and, indeed, the impacts should be positive, rather than adverse.

WHEREFORE, upon this Petition and all other submissions and attachments hereto, and all prior and other proceedings and submissions had herein, Petitioners pray that the Village Board adopt the zone text amendments proposed herein, and authorize all necessary acts, amendments, local laws, and transactions necessary to effectuate such zone text amendments.

Respectively Submitted,

THE ERIOLE LAW FIRM, P.C.

Joseph P. Eriole, Esq., Principal

VERIFICATION

STATE OF NEW YORK) COUNTY OF ULSTER)ss.:

JOSEPH P. ERIOLE, ESQ., being duly sworn, deposes and says:

I am the Attorney representing the Petitioner herein; I have read the foregoing Zoning Petition, know the contents thereof and the same is true to my knowledge, except as to those matters therein stated to be alleged upon information and belief, and as to said matters I believe them to be true. I make this affirmation on behalf of the Petitioner as the Petitioner's duly authorized representative and because my principal office is located outside the County in which the Petitioner is situate.

May 12, 2017

Joseph P. Eriole, Esq.

EXHIBIT A

V07490229 98173 PAGE 156 LIBER ۰., CONSULT YOUR LAWYER SEFORE SIGNING THIS INSTRUMENT-THIS INSTRUMENT SHOULD BE USED BY LAWYERS ONLY. THIS INDENTURE, made the 15th day of August , nineteen hundred and ninety BETWEEN OSSINING RIVER ASSOCIATES, INC., a domestic corporation having its office and place of business at 51 Route 100, Briarchiff Manor, New York 10510 OSSINING RIVER ASSOCIATES, INC., a domestic corporation party of the first part, and OSSINING RIVER ASSOCIATES, INC., a domestic corporat having its office and place of business at 51 Route 100, Briarchiff Manor, New York 10510 party of the second part. WITNESSETH, that the party of the first part, in consideration of Ten Dollars and other valuable consideration paid by the party of the second part, does hereby grant and release unto the party of the second part, the heirs or successors and assigns of the party of the second part forever, ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon srected, situate, lying and being in the Village of Ossining, Town of Ossining, County of Westchester and State of New York, being more particularly bounded and described in Schedule A attached hereto and made a part hereof ... TAX MAP DESIGNATION TOGETHER with all right, title and interest, if any, of the party of the first part in and to any streets and roads abutting the above described premises to the center lines thereof; TOGETHER with the appurtenances and all the estate and rights of the party of the first part in and to said premises; TO HAVE AND TO HOLD the premises herein granted unto the party of the second part, the heirs or successors and assigns of the party of the second part forever. Dat. Sec. 3 ы 1 Lot(1): 1 AND the party of the first part covenants that the party of the first part has not done or suffered anything whereby the said premises have been encumbered in any way whatever, except as aforesaid. AND the party of the first part, in compliance with Section 13 of the Lien Law, covenants that the party of the first part will receive the consideration for this conveyance and will hold the right to receive such consideration as a trust fund to be applied first for the purpose of paying the cost of the improvement and will apply the name first to the payment of the cost of the improvement before using any part of the total of the same for any other purpose. The word "party" shall be construed as if it read "parties" whenever the sense of this indenture so requires. IN WITNESS WHEREOF, the party of the first part has duly executed this deed the day and year first above written. IN PRESENCE OF: OSSINING RIVER ASSOCIATE 11 2 Ý

LIBER 9873 PAGE 157

SCHEDULE A

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Beginning at a point on the westerly side of the Old Croton Aqueduct at the division line between the premises herein described and premises of the Village of Ossining; running thence southwesterly and along said division line, South 20 degrees 38' 50" West 218.43 feet to the northerly line of lands now or formerly of G. Dermer at a point which is distant westerly 102.54 feet from a point on the westerly side of Snowden Avenue which is marked by the division line between the northerly line of premises of G. Dermer and southerly line of the premises of the Village of Dermer and southerly line of the premises of the Village of Ossining; running thence along the northerly line of said lands of G. Dermer and continuing along the northerly line of lands acquired by The People of The State of New York for the "Hudson River Expressway" by Notice of Appropriation dated August 19, 1969, recorded August 27, 1969, in Liber 6879 Cp. 88, designated herein as Parcel No. 10, Map No. 4. "Hudson River Expressway", filed July 31, 1968, in Westchester Count Clerk's Office as Map No. 16204, the following two courses and distances: North 69 degrees 21' 10" West 82.46 feet; and North 77 degrees 22' 28" West 916.28 feet to the easterly line of Parcel No. 8 on said "Taking Map" No. 16204; running thence northwesterly along said Parcel No. 8 on said Map No. 16204, acquired by The People of the State of New York by the Notice of Appropriation hereinabove mentioned and thence northeasterly along lands now or formerly of Curtis and Patricia Buttenheim, the following two courses and distances: North 9 degrees 02' 49" West 250.98 feet; and North 18 degrees 26' 40" East 166.98 feet to the southerly side of a right-of-way known as Sandy Drive; running thence easterly and northeasterly along said southerly side of Sandy Drive, the following courses and distances: On a curve to the left having a radius of 102.27 feet a distance of On a curve to the left having a radius of 102.27 feet a distance of 40.22 feet to a point of tangency; thence South 77 degrees 10' 10" East 37.51 feet to a point of curve to the left; thence on said curve to the left having a radius of 139.40 feet a distance of 127.70 feet to a point of compound curve; thence on said curve, still to the left, having a radius of 268.86 feet a distance of 100.52 feet to the lands now or formerly of Winterrich; running thence southeasterly and northeasterly along said land of thence southeasterly and northeasterly along said land of Winterrich, the following course and distance: North 24 degrees 20' 20" West 36.02 feet; thence easterly on a curve to the left having a radius of 411.67 feet, a distance of 59.62 feet; running thence north 17 degrees 56' 10" east a distance of 82.58 feet; thence easterly on a curve to the right having a radius of 145.85 feet, a distance of 112 84 feet; running thence North 62 degrees 10' 20" distance of 113.84 feet; running thence North 62 degrees 19' 30" East 82.76 feet to the southerly side of a roadway known as Beach Road; thence easterly along the same roadway on a curve to the left having a radius of 75.98 feet, a distance of 23.63 feet; running thence South 49 degrees 36' 52" West a distance of 159.33 feet; thence on a curve to the left having a radius of 44.23 feet a distance of 31.45 feet; running thence South 8 degrees 52' 04" West

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SCHEDULE A, cont'd

104.54 feet; thence along a curve to the left having a radius of 17.00 feet; a distance of 29.45 feet; running thence North 89 degrees 36' 11" East a distance of 95.12 feet; running thence North 57 degrees 56' 00" East a distance of 326.05 feet to the westerly side of the Old Croton Aqueduct aforementioned; running thence southerly along said westerly side of the Old Croton Aqueduct, the following two courses and distances: South 26 degrees 38' 20" East 616.38 feet to a point of curve; and thence along said curve to the right, having a radius of 967 feet, a distance of 181.84 feet to the lands of the Village of Ossining or place of BEGINNING

9873 PAGE 159 LIBER STATE OF NEW YORK, COUNTY OF STATE OF NEW YORK, COUNTY OF 19 19 On the day of On the day of before me , before me personally came personally came to me known to be the individual described in and who executed the foregoing instrument, and acknowledged that executed the same. to me known to be the individual described in and who executed the foregoing instrument, and acknowledged that executed the same. 10 N N STATE OF NEW YORK, COUNTY OF STATE OF NEW YORK, COUNTY OF **\$\$**1 861 On the LSTH day of August 1990, before me personally came to me known, who, being by me duly sworn, did depose and 1990, before me On the day of 19 , before me on the gay of 19 , before me personally came the subscribing witness to the foregoing instrument, with whom I am personally acquainted, who, being by me duly sworn, did depose and say that he resides at No. į. to me known, who, deing op me duly sworh, say that he resides at No. Driot el. Heave, D.Y. that he is the of Ossing River Associator, Inc. that he knows , the corporation described to be the individual described in and who executed the foregoing instrument; in and which executed the foregoing instrument; that he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so that he, said subscribing witness, was present and saw execute the same; and that he, said witness, at the same time subscribed h name as witness thereto. affixed by order of the board of directors of said corpora-tion, and that he signed h S name thereto by like order. 1000 name as witness thereto. N 19 10 10 **DUDCI 21** State of New York NOTARY PUBLIC, No. C9 Qualified in Whitehester County Term Expires Fabruary 28, 1993. Bargain and Bale Deeb WITH COVENANT AGAINST GRANTOR'S ACTS 3 SECTION BLOCK 1 TITLE NO. 1 LOT CONVERTOWN Ossining OSSINING RIVER ASSOCIATES, INC. TAX BILLING ADDRESS 10 OSSINING RIVER ASSOCIATES, INC. rded At Request of Ticor Title Quarantee Company RETURN BY MAIL TO: Wormser, Kiely, Galef & Jacobs 709 Westchester Avenue Dischard by P.O. Box 290, Gedney Station Z, ٤Į White Plains, New York 10604 ALL NO. THE ALL TLE GUARANTEE Attention: Lawrence R. Dittelman, Esq. TICOR A. 2010 100 17 USE OF RECORDING **INSERVE THIS SPACE FOR**

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LIBER 8388 PA	CONSULT YOUR LAWVER SEFORE SIGNING THIS INSTRUMENT-THIS INSTRUMENT SHOULD BE USED BY LAWVERS ONLY.	· · · ·
· .	THIS INDENTURE, made the 21 day of March , nuneteen hundred and eighty-six BETWEEN	•
	GEORGE PACCHIANA and RONALD FRATOLILL 51 Route 100, Briarcliff Manor, New York 10510	
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	party of the first part, and	•
	OSSINING RIVER ASSOCIATES, INC., a domestic corporation having its office and place of business at 51 Route 100 Briarcliff Manor, New York, 10510	• • •
	party of the second part, WITNESSETH, that the party of the first part, in consideration of ONE DOLLAR, and an (100	
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	lawful money of the United States,	
	by the party of the second part, does hereby grant and release unto the party of the second part, the heirs or	
	successors and assigns of the party of the second part forever,	
	ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate,	
	lying and being in the Village of Ossining, Town of Ossining, County of Westchester and State of New York, being more particularly bound- ed and described as follows:	
	BEGINNING at a point on the westerly side of the Old Croton Aque- duct at the division line between the premises herein described and premises of the Village of Ossining; running thence southwest- erly and along said division line, South 20 degrees 38' 50" West 218.43 feet to the northerly line of lands now or formerly of G. Dermer at a point which is distant westerly 102.54 feet from a point on the westerly side of Snowden Avenue which is marked by	
	Dermer and southerly line of premises of G. Dermer and southerly line of premises of the Village of Ossining; running thence along the northerly line of said lands of G. Dermer and continuing along the northerly line of lands acquired by The People of the State of New York for the "Hudson River Expressway" by Notice of Appropriation dated August 19, 1969, recorded August 27, 1969, in Liber 6879 Cp. 88, designated herein as Parcel No. 10, Map No. 4, "Hudson River Expressway", filed July 31, 1968, in Westchester County Clerk's Office as Map No. 16204, the following two courses and distances: North 69 degrees 21' 10" West 82.46 feet; and North 77 degrees 22' 28" West 916.22 for the the provide the sector.	
	of Parcel No. 8 on said "Taking Map" No. 16204; running thence north- westerly along said Parcel No. 8 on said Map No. 16204, acquired by The People of the State of New York by the Notice of Appropriation hereinabove mentioned and thence northeasterly along lands now or formerly of Curtis and Patricia Buttenheim, the following two courses and distances: North 9 degrees 02' 49" West 250.98 feet; and North 18 degrees 26' 40" East 166.98 feet to the southerly side of a right-of-way known as Sandy Drive; running thence easterly and north-	
	easterly along said southerly side of Sandy Drive, the following courses and distances: On a curve to the left having a radius of 102.27 feet, a distance of 40.22 feet to a point of tangency; thence South 77 degrees 10' 10" East 37.51 feet to a point of curve to the left; thence on said curve to the left having a radius of 139.40 feet a distance of 127.70 feet to a point of compound curve; thence on said curve, still to the left, having a radius of 268.86	
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feet, a distance of 100.52 feet to lands now or formerly of Winterrich; running thence southeasterly and northeasterly along said land of Winterrich, the following two courses and distances: South 24 degrees 20' 20" East 55.86 feet; and North 57 degrees 56' 00" East 487.16 feet to the westerly side of the Old Croton Aqueduct aforementioned; running thence southerly along said westerly side of the Old Croton Aqueduct, the following two courses and distances: South 26 degrees 38' 20" East 616.38 feet to a point of curve; and thence along said curve to the right, having a radius of 967 feet, a distance of 181.84 feet to lands of the Village of Ossining and the point or place of BEGINNING.

TOGETHER with the right of ingress and egress, in common with others, over Sandy Drive to and from Beach Avenue, a public street;

TOGETHER with Appurtenant Rights and Easements with others, to connect to a Sewer Easement over lands of Filix-Metal Products Corp., and others adjoining lands of the People of the State of New York on the South as more particularly set forth in a certain Agreement dated June 4, 1956, recorded April 23, 1956, in liber 5797 Cp. 234;

TOGETHER with the right and easement to construct, maintain, operate and repair a Sanitary Sewer line over, under, across and upon the lands of The People of the State of New York (Notice of Appropriation recorded in Liber 6879 Cp 88), continuing over lands of Elissa Lord and over lands of Filix-Metal Products Corp. to connect with the Appurtenant Easement recorded in Liber 5797 Cp. 234, immediately above referred to.

SUBJECT TO:

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Permanent easement for drainage appropriated in liber 7726 of Conveyances, page 713, and as delineated on Map No. 20625.

Sewer easement contained in instrument recorded in liber 7514 of Conveyances, page 510, and as delineated on Map No. 19451.

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BEING the same premises conveyed to the parties of the first part by deed dated June 15, 1984 and recorded in the Office of the Clerk of the County of Westchester, Division of Land Records, on June 19, 1984 in liber 7930, page 505 of deeds.

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TOGETHER with all right, title and interest, if any, of the party of the first part in and to any streets and roads abutting the above described premises to the center lines thereof.

TOGETHER with the appurtenances and all the estate and rights of the party of the first part in and to said premises,

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TO HAVE AND TO HOLD the premises herein granted unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

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AND the party of the first part covenants that the party of the first part has not done or suffered anything whereby the said premises have been incumbered in any way whatever, except as aforesaid.

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AND the party of the first part, in compliance with Section 13 of the Lien Law, covenants that the party of the first part will receive the consideration for this conveyance and will hold the right to receive such consideration as a trust fund to be applied first for the purpose of paying the cost of the improvement and will apply the same first to the payment of the cost of the improvement before using any part of the total of the same for any other purpose.

The word "party" shall be construed as if it read "parties" whenever the sense of this indenture so requires. IN WITNESS WHEREOF, the party of the first part has duly executed this deed the day and year first above written.

Re:

IN PRESENCE OF:

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WESTCHESTER COUNTY CLERK RECORDING PAGE 12% සි (THIS PAGE IS PART OF THE INSTRUMENT) Inter SSS Prace RECEIVED WESTCHESTER COUNTY CLERK .De D TYPE OF INSTRUMENT DATE 5 MAR 26 8 25 AH 186 STATUTORY CHARGE HTGE ANT 12 RECORDING CHARGE EXEMPT YES ŇÖ BEDFORD 1 02 FILING CHARGE REC'D TAX ON ABOVE HIGE CORTLANDT 06 EASTCHESTER 09 CROSS REFERENCE BAS1C GREENBURGH 11 CERT/RECEIPT ADDITIONAL S HARRISON 12 LEWISBORD 16 SUBTOTAL ŀJ 17 MAMARONECK F (. MT KISCO MT PLEASANT 19 £90 m SPECIAL 20 TOTAL 21 MT VERNON 22 NEW CASTLE SERIAL NO . 23 NEW ROCHELLE 24 NORTH CASTLE NORTH SALEM 26 CONSID ______ (28) 30 OSSINING PEEKSKILL ANDREW J. SPAND WESTCHESTER COUNTY CLERK RECEIVED C REAL ESTATE PELHAM 31 POUND RIDGE 35 RYE CITY RYE TOWN 36 37 SCARSDALE 38 SOMERS 39 TRANSFER TAX WHITE PLAINS YONKERS 42 WESTCHESTER 43 COUNTY YORKTOWN 44 TERMINAL NOGONS (ADUC) TRANSFER FEES NO DATE RET'D 60 134 8001 03/20/86CFV 22643 RECORD AND RETURN TO THE FOREGOING INSTRUMENT WAS ENDORSED FOR THE RECORD AS FOLLOWS ; THE PROPERTY AFFECTED BY THIS INSTRUMENT IS SITUATE IN THE OSSINING X TOWN CITY OF . _, COUNTY OF WESTCHESTER DEED N.Y. A TRUE COPY OF THE ORIGINAL _ RECORDED IN THE DIVISION OF LAND RECORDS OF THE COUNTY CLERK'S OFFICE OF MAR. 26, 1986 WESTCHESTER COUNTY ON M. IN PAGE 34 Deeds LIBER 8388 IN THE BOOK OF Mudeux Asauc WITNESS MY HAND AND OFFICIAL SEAL: ANDREWUJ SPAND, COUNTY CLERK



niard N.Y.B.T.U. Form 8002-20M -Bantala and Sale Deed, with Co or's Acts-Individual or Corporatio CONSULT YOUR LAWYER BEFORE SIGNING THIS INSTRUMENT - THIS INSTRUMENT SHOULD BE USED BY LAWYERS ONLY

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9186 PAGE 137

LIBER

CTA THIS INDENTURE, made the day of MA9 (hineteen hundred and Eighty BETWEEN WILLIAM T. DUBRAY and JOAN EISNER DUBRAY, his wife, both residing at Beach Road, Ossining, New York <u>, 60</u>, An

party of the first part, and

#1452#

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and the second second second

OSSINING RIVER ASSOCIATES, a domestic corporation with its office at 51 Route 100, Briarcliff Manor, New York 10510

party of the second part,

WITNESSETH, that the party of the first part, in consideration of ten dollars and other valuable consideration paid by the party of the second part, does hereby grant and release unto the party of the second part, the heirs or successors and assigns of the party of the second part forever,

ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being in the Town and Village of Ossining, County of Westchester and State of New York, bounded and described as follows:

BEGINNING at a point on the southerly side of Beach Road dis-tant 141.45 feet westerly along the same from the westerly side of Old Croton Aqueduct;

RUNNING THENCE South 17° 48' 30" West 271.01 feet to lands now or formerly of Brandreth;

RUNNING THENCE along the same, South 59° 51' 30" West 161.11 feet to lands now or formerly of Meert;

RUNNING THENCE along the same, North 22° 25' 10" West 91.88 feet to the center line of a driveway as it previously existed and may presently exist;

THENCE easterly on a curve to the left having a radius of 411.67 feet, a distance of 59.62 feet;

RUNNING THENCE North 19° 31' 30" East 82.58 feet;

THENCE easterly on a curve to the right having a radius of 145.85 feet, a distance of 113.84 feet and North 64° 14' 50" East 82.76 feet to the southerly side of a roadway;

BUNNING THENCE easterly along the same on a curve to the left having a radius of 75.98 feet, a distance of 58.64 feet to the point or place of BEGINNING.



2250.27

TOGETHER with all right, title and interest, if any, of the party of the first part in and to any streets and roads abutting the above described premises to the center lines thereof; TOGETHER with the appurtenances and all the estate and rights of the party of the first part in and to said premises; TO HAVE AND TO HOLD the premises herein granted unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

AND the party of the first part covenants that the party of the first part has not done or suffered anything whereby the said premises have been encumbered in any way whatever, except as aforesaid.

AND the party of the first part, in compliance with Section 13 of the Lien Law, covenants that the party of the first part will receive the consideration for this conveyance and will hold the right to receive such consid-eration as a trust fund to be applied first for the purpose of paying the cost of the improvement and will apply the same first to the payment of the cost of the improvement before using any part of the total of the same for

The word "party" shall be construed as if it read "parties" whenever the sense of this indenture 30 requires. IN WITNESS WHEREOF, the party of the first part has duly executed this deed the day and year first above

IN PRESENCE OF:

She,

N. MUANDO

Erner Q COM JOAN 122 EISNER DUBRAY С. 0.5023-05

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LiBe	ER 9186PAGE138 STATE OF NEW YORK, COUNTY OF WEST	CHESTER		- 1 %	
	On the GR day of Martine	19 8 8 , before me	On the day of to the	4	
	Joan Eisner Dubray	oray and , his wife	personally came		•
	to me known to be the individual 8 des executed the foregoing instrument, and	cribed in and who acknowledged that	to me known to be the individual described in and who	1	
Č.	chey executed the same.	1.1	executed the same.	•	• •
	go word 11	p			
- 	GORDON A. MCKEAN NOTARY PUBLIC, State of New	w York			
	No. 4524918 Qualified in Westchester Co Commission Expires Merch 20	unty of 5-), 1900			•
4 A. C. S.	STATE OF NEW YORK, COUNTY OF				
	On the day of	19 , before me	STATE OF NEW YORK, COUNTY OF 55: On the day of to to		·
2. 	to me known, who, being by me duly swor say that he resides at No.	m, did depose and	personally came in personally came by personally came the subscribing witness to the foregoing instrument, with		
20.02	that he is the of		sworn, did depose and say that he resides at No.		
	in and which executed the foregoing instr	poration described ument; that he	that he knows	1	
1	to said instrument is such corporation; that affixed by order of the board of directors	the seal affixed that it was so	described in and who executed the foregoing instrument; that he, said subscribing witness, was present and saw	Ĩ	
	tion, and that he signed h name ther	eto by like order.	at the same time subscribed h name as witness thereto.	. .	
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1		· · · · · · · · · · · · · · · · · · ·			
			RECORDED BY TRI-STATE ABSTRACT INC		
			RECORDED BY TRI-STATE ABSTRACT, INC. 2794 MORELAND ST. YORKTOWN HGTS., NY 10598		, ,
	Bargain and Sale Beed		RECORDED BY TRI-STATE ABSTRACT, INC. 2794 MORELAND ST. YORKTOWN HGTS., NY 10598 (914) 962-3650		
T	Bargain and Sale Beed With Covenant Against Granton's Acts TLE NO. H 523 8/0W.		RECORDED BY TRI-STATE ABSTRACT, INC. 2794 MORELAND ST. YORKTOWN HGTS., NY 10598 (914) 962-3650 SECTION 3, Plate 1		
TT	Bargain and Sale Beed With Covenant Against Grantor's Acts TLE NO. <u>H 533 8/0</u> . WILLIAM T. DUBRAY AN	ng a training and a second sec	RECORDED BY TRI-STATE ABSTRACT, INC. 2794 MORELAND ST. YORKTOWN HGTS., NY 10598 (914) 962-3650 SECTION 3, Plate 1 BLOCK 1 LOT 5		
Ŧ	Bargain and Sale Beed WITH COVENANT AGAINST GRANTOR'S ACTS TLE NO. H 573 810W. WILLIAM T. DUBRAY AN JOAN ELSNER DUBRAY, OSSINING PIMER ACCOM	nd strangthere and strangthere	RECORDED BY TRI-STATE ABSTRACT, INC. 2794 MORELAND ST. YORKTOWN HGTS., NY 10598 (914) 962-3650 section 3, Plate 1 BLOCK 1 LOT 5 COUNTY OR TOWN of Ossining, Westchester		· ·
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Ξ. 	BALLARIN AND BALE BEED WITH COVENANT AGAINST GRANTOR'S ACTS TILE NO. H 573 8/0W. WILLIAM T. DUBRAY AT JOAN ELSNER DUBRAY, OSSINING RIVER ASSOC		RECORDED BY TRI-STATE ABSTRACT, INC. 2794 MORELAND ST. YORKTOWN HGTS., NY 10598 (914) 962-3650 SECTION 3, Plate 1 BLOCK 1 LOT 5 COUNTY OR TOWN OF Obsining, Westchester Recorded at Request of CHICAGO TITLE INSURANCE COMPANY Return by Mail to		· ·
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LIBER 86 FAGE 139 WESTCHESTER COUNTY RECORDING AND ENDORSEMENT PAGE (THIS PAGE FORMS PART OF THE INSTRUMENT) THE FOREGOING INSTRUMENT WAS ENDORSED FOR THE RECORD AS FOLLOWS: TYPE OF INSTRUMENT BI (SEE CODES FOR DEFINITIONS) THE PROPERTY IS SITUATED IN I.THER MORTGE. DATE WESTCHESTER COUNTY, N.Y. IN THE PAGE MORTGE. AMOUNT 02 TOWN OF BEDFORD 06 TOWN OF CORTLANDT EXEMPT YES 09 TOWN OF EASTCHESTER NO STAT'Y CHARGE REC'D TAX ON ABOVE MIGE: TOWN OF GREENBURGH 11 TOWN OF HARRISON 12 REC'ING CHARGE BASIC TOWN OF LEWISBORD 16 17 TOWN OF MAMARONECK FILING CHARGE ADDTL 19 TOWN OF MT. KISCO 20 TOWN OF MT. PLEASANT CROSS REFERENCE SUBTOTAL 21 CITY OF MT. VERNON 22 TOWN OF NEW CASTLE CERT/RECEIPT SPECIAL 23 CITY OF NEW ROCHELLE 24 TOWN OF NORTH CASTLE OTAL TOTAL 26 28 TOWN OF NORTH SALEM しみ TOWN OF OSSINING CITY OF PEEKSKILL 30 SERIAL No. 31 TOWN OF PELHAM 362,946 TOWN OF POUND RIDGE 35 CONSIDERATION DWELLING: 36 CITY OF RYE 37 TOWN OF RYE RECEIVED 1-6 UNITS 38 TOWN OF SCARSDALE 39 TOWN OF SOMERS OVER 6 UNITS 643 42 CITY OF WHITE PLAINS 43 CITY OF YONKERS 66 TOWN OF YORKTOWN MAY 1 1988 REAL ESTATE ANDREW J. SPANO TRANSFER TAX WESTCHESTER COUNTY CLERK WESTCHESTER COUNTY TERMINAL No. DATE RETURNED ADDITIONAL COMMENTS 88/325022 WITNESS OF EAND AST OFFICIAL SEAL haur ANDREW S. SPANO WESTCHESTER COUNTY CLERK THE RECORDING DATE OF THIS INSTRUMENT AS INDICATED ABOVE IS THE OFFICIAL DATE ON WHICH THE WESTCHESTER COUNTY CLERK RECEIVED THIS INSTRUMENT. QUESTIONS REGARDING DELAYS PRIOR TO THIS DATE SHOULD BE ADDRESSED TO YOUR REPRESENTATIVE OR ATTORNEY. 0000652008 85/11/08CPA/DE 12.00 88. HV TY CLERK 11148 RECORD AND RETURN ñ Ξ 10%1.18

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REFERENCES:

1) THE FOLLOWING DEEDS FILED IN THE WESTCHESTER COUNTY CLERK'S OFFICE: LIBER 9873, PAGE 156

LIBER	9873,	PAGE	101
LIBER	9186,	PAGE	137
LIBER	8388,	PAGE	34

- MAP ENTITLED "PROPERTY MAP FOR RIGHT OF WAY ACQUISITION FOR LANDS OF NORTHERN INTERCEPTOR", PREPARED BY W.A. SLATER JR. PLS, DATED AUGUST 16, 1976. FILED IN THE WESTCHESTER COUNTY CLERK'S OFFICE AS MAP NO. 19451.
- MAP ENTITLED "SUBDIVISION OF PROPERTY FOR LANDS KNOWN AS APPLEBY SUBDIVISION", PREPARED BY W.A. SLATER JR. PLS. DATED OCTOBER 4, 1988. FILED IN THE WESTCHESTER COUNTY CLERK'S OFFICE AS MAP NO. 23840.
- 4) THE FOLLOWING NEW YORK STATE DEPARTMENT OF TRANSPORTATION ACQUISITION MAPS: MAP NO. 4 PARCELS NOs. 8, 9, 10. MAP NO. 90 PARCEL NO. 96. FILED IN THE WESTCHESTER COUNTY CLERKS OFFICE AS MAP NO. 20625.

NOTES:

1) PROPERTY IS LOCATED IN ZONE "X" AS SHOWN ON THE FLOOD INSURANCE RATE MAP FOR THE VILLAGE AND TOWN OF OSSINING, COUNTY OF WESTCHESTER, STATE OF NEW YORK, COMMUNITY PANEL NUMBERS 361241 AND 361021 MAP NUMBER 36119C0136F, EFFECTIVE DATE SEPTEMBER 28. 2007.

2) THE UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON AN INSTRUMENT LOCATION OF THE ABOVE GROUND FEATURES (MANHOLES, VALVES, HYDRANTS, ETC.) ALONG WITH RECORD UTILITY PLANS AND STAKEOUT IN THE FIELD BY THEIR RESPECTIVE COMPANIES. UNDERGROUND UTILITIES ARE NOT CERTIFIED TO THEIR LOCATION OR COMPLETENESS.

3) SURVEYED PARCELS ARE ZONED AS CONSERVATION DEVELOPMENT DISTRICT (CDD), AND ONE-FAMILY RESIDENCE (S-125) SHOWN ON THE VILLAGE OF OSSINING ZONING MAP DATED JANUARY 2010, PREPARED BY BOWNE MANAGEMENT SYSTEMS, MINEOLA, NY. 4) NO STRIPING EXISTS ON THE SURVEYED PARCEL.

5) NO ABSTRACT OF TITLE PROVIDED. PROPERTY IS SUBJECT TO ANY EASEMENTS, ENCUMBRANCES OR RESTRICTIONS THAT AN UP TO DATE ABSTRACT OF TITLE WOULD SHOW.

6) HORIZONTAL DATUM IS REFERENCED TO THE NEW YORK STATE PLANE COORDINATE SYSTEM, EAST ZONE (NAD 83) THROUGH GPS OBSERVATIONS.

7) VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) THROUGH GPS OBSERVATIONS.

8) ALL DISTANCES SHOWN ARE GROUND DISTANCES AND ALL BEARINGS AND COORDINATES SHOWN ARE GRID. 9) VERTICAL RELIEF IS BASED FROM FIELD SURVEY DATA.

LINE		BEARING		DISTANCE
L1	Ν	18 ° 07 ' 42'	Έ	166.98'
L2	Ν	09'21'47'	" W	250.98'
L3	Ν	77•41'26'	" W	916.28'
L4	Ν	69*40'08	" W	82.46'
L5	S	26'57'18'	Έ	616.38'
L6	S	20'19'52'	' W	218.43'D., 217.98'MS.
L7	Ν	57°37'02'	Έ	326.05'
L8	S	77'29'08'	Έ	37.51'
L9	S	62'00'22'	'W	82.76'
L10	Ν	24'39'38'	" W	36.02'
L11	S	49'17'44'	' W	159.33'
L12	Ν	15°34'02'	Έ	271.01'
L13	S	08'32'56'	'W	104.54'
L14	Ν	89°17'03'	Έ	95.12'
L15	N	17'17'02'	" E	82.58'

ZONING INFORMATION	<u>1:</u>
EXISTING ZONING: ONE FAMILY AND CONSERVATION DEVELOPM	Y RESIDENCE (S-125) IENT DISTRICT (CDD)
ZONING REQUIREMENTS:	REQUIRED
FRONT BLDG. SETBACK:	30' CDD, 45' S-125
SIDE BLDG. SETBACK:	30' CDD, 30' S-125
REAR BLDG. SETBACK:	30' CDD, 45' S-125
MAX BUILDING HEIGHT: (STORIES/FT.), WHICHEVER IS LESS	4.0/48'CDD 2.5/35'S-125
MAX BUILDING FOOTPRINT: (PERCENT)	30% CDD 20% S-125
SOURCE: http://ecode360.com	n/6426965

CURVE	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING	CHORD LENGTH
C11	40.22'	102.27'	22'31'58"	S 66'13'09" E	39.96'
C12	181.84'D., 181.96'MS.	967.00'	10°46'54"	S 21°33'52" E	181.70'
C13	127.70'	139.40'	52 ° 29'13"	N 76°16'15" E	123.28'
C14	100.52'	268.86'	21°25'17"	N 39°19'00" E	99.94'
C15	23.63'	75.98'	17*48'45"	S 82°04'39" E	23.53'
C16	35.00'	75.98'	26°24'25"	S 75°49'33" W	34.71'
C17	59.62'	411.67'	8 ° 17'52"	N 21°25'58" E	59.57 '
C18	29.45'	17.00'	99'15'23"	S 41°05'16" E	25.90'
C19	31.45'	44.23'	40'44'26"	S 28'55'09"W	30.79'
C20	113.84'	145.85'	44°43'20"	N 39°38'42" E	110.98'

SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2011 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/ACSM LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 3-5, 6(a)(b), 7(a), 8–9, 11(a)(b) and 13 OF TABLE A THEREOF. THE FIELD WORK WAS COMPLETED ON 6/3/15.

PATRICK T. VanHAVERBEKE, P.L.S. No. 50931

DATE: JUNE 3, 2015

OSSINING **RIVER PROJECT**

SNOWDEN AVENUE **OSSINING, NY**



51 ROUTE 100 **BRIARCLIFF MANOR NEW YORK 10510**

Bergmann architects // engineers // planners

10B Madison Avenue Extension Albany, New York 12203

office: 518.862.0325 fax: 518.862.0326

www.bergmannpc.com

REVISIONS NO. DATE DESCRIPTION REV. CK'D

PROPERTY SITUATE IN VILLAGE OF OSSINING, TOWN OF OSSINING, COUNTY OF WESTCHESTER, STATE OF NEW YORK



TOULO DIOTOIAT ADD				
ZONING DISTRICT: CDD:	CONSERVATION DEVEL	OPMENT DISTRICT / S-	-125: ONE-FAMILY RESIDENCE	
	KEQUIKED (CDD)	KLQUIKLD (S-125)	TRUPUSED (CDD)	DEALESIDENTIAL LOT (S
MINIMUM LOT AREA MAXIMUM BUILDING WIDTH FOR EACH STRUCTURE/OPEN AREA	2 ACRES	0.34 ACRES	452 FEET / 70%	0.54 ACRES (SEE NUTE 69 FEET
BUFFER FOR LOTS ABUTTING A RESIDENTIAL DISTRICT	25 FEET	N/A	25 FEET MIN	N/A
DING. PARKING AND LOADING SETBACK				
MINIMUM FRONT YARD	30 FEET	45 FEET	BLDG: 105 FEET PARKING: 27 FEET	51 FEET
MINIMUM SIDE YARD (ONE)	30 FEET	30 FEET	BLDG: 30 FEET PARKING: 17 FEET	29 FEET*
MINIMUM REAR YARD	30 FEET	45 FEET	BLDG: 33 FEET PARKING: 100 FEET	53 FEET
MINIMUM DISTANCE BETWEEN ANY TWO BUILDINGS	35 FEET	N/A	102 FEET	N/A
MINIMUM LIVABLE FLOOR AREA PER DWELLING UNIT	N/A	0.02 ACRES	N/A	> 0.02 ACRES
IDENTIAL REQUIREMENTS		N/A		N /A
BEDROOM MIX	SEE NOTE 3	N/A N/A	49% 1 BDR: 49% 2 BDR: 2% 3 BDR	N/A N/A
HTS				
MAXIMUM BUILDING HEIGHT, WHICHEVER IS LESS	4.0 STORIES/ 48 FEET	2.5 STORIES/ 35 FEET	5.0 Stories/ 58± Feet	< 2.5 STORIES/ 35 Ft
ERAGE				
MAXIMUM IMPERVIOUS COVERAGE	50%	30%	35%	28%
MAXIMUM BUILDING COVERAGE	30%	20%	9%	7.4%
MINIMUM OPEN SPACE	25% (OF LOT AREA)	N/A	38%	N/A
STING BUILDING WITH NON-CONFORMING BUILDING SETBACK				
NOTE:				
1. THE TOTAL CUMULATIVE WIDTH OF BUILDINGS, STRUCTURE AND WALLS MORE THAN 36 INCHES IN HEIGHT SHALL NO	S, SOLID FENCES IT OCCUPY MORE			
THAN 50% OF THE WIDTH OF A PARCEL AS MEASURED A SUBSTANTIALLY PARALLEL TO THE HUDSON RIVER, AND T	LONG A LINE HE MAXIMUM			
BUILDING WIDTH FOR EACH STRUCTURE OF BUILDING SHA THAN 75 FEET MEASURED ALONG A LINE SUBSTANTIALLY	LL NOT BE MORE PARALLEL TO THE			
HUDSON RIVER. REFERENCE 270-19 FOR ADDITIONAL RE	QUIREMENTS.		/	89
2. DASILINE VENSIII: & UNIIS PER ACRE UP TO 8 DWELLI PURSUANT TO 270-19. WETLAND SHALL BE DEDUCTED F AREA WHEN DETERMINING DENSITY DENSITY DENSITY	ig units mek acre			LAI JEFFR
OBTAINED PER 270-19. H.	THE MAIDE			
3. BEDROOM MIX REQUIREMENTS: 10% OF TOTAL UNITS FOR UNITS OR STUDIOS, 20% OF TOTAL UNITS FOR TWO-BED	ONE-BEDROOM ROOM UNITS AND			
10% OF TOTAL UNITS FOR THREE-BEDROOM UNITS. A WAREQUIRED.	IVER MAY BE	/ \	/	
4. REFER TO 270-19. G FOR AFFORDABLE HOUSING REQUI	REMENTS. APPLICANT		/ / / /	/ 80 14-1-7
MUSI PROVIDE AFFORDABLE HOUSING PER CHAPTER 62.	PALTA /4004 - 410			
J. SURVET REFERENCE: SURVEY BASED ON A MAP ENTITLED TITLE SURVEY", DATED JUNE 3, 2015, PREPARED BY BEF	alia/ausm land RGMANN ASSOCIATES.			SANDY DRIVE
6. DOES NOT CONSIDER LAND CONVEYANCE BETWEEN OSSIN	ING RIVER			
ASSOCIATES AND THE VILLAGE.			ALONG SANDY DRIVE	
7. LOIS WITH A GREATER WIDTH THAN THE MINIMUM LUT WI BOTH SIDE YARD SETBACKS EQUAL TO 40% OF THE LOT SIDE YARD FOLIALING A MINIMUM OF 45% OF BOTH SIDE	WIDTH WITH EACH YARD SETRACKS #5	FND.	+	
8 THE EXISTING LOT SIZE IS 0.61 ACRES THE REDUCED I	DT SIZE IS 0.54	N, 0.6'E		
ACRES WITH THE LAND PROVIDED FOR EMERGENCY ACCE	SS.	89.14-1-8	×	PATH
PROJECT DATA		LANDS N/F 1 JEFFREY G. SMITH	S-125 DISTRICT	
1. APPLICANT: OSSINING RIVER ASSOCIATES, INC.). IPE		COD DISTRICT	WIDE
51 ROUTE 100 BRIARCLIFF MANOR, NEW YORK 14607	E.			
2. EXISTING ZONING: CDD: CONSERVATION DEVELOPMEN	r district		MOUNDS - 40.5' 2 33	ROOF, IYP.
S-125: ONE-FAMILY RESIDENCE		ŝ'		
3. LUI AREA: $13.86\pm$ ACRES (603,876 SF)		and A		02
		E		<u> </u>
<u>OFF-SIREEL PARKING</u> <u>CDD DISTRICT - RESIDENTIAL DWELLINGS UNITS</u> 1.25 SPACES FOR AN EFFICIENCY OF STUDIO		El Leo		
1.5 SPACES FOR 1 BEDROOM 2.0 SPACE FOR UNITS WITH 2 OR MORE BEDROOMS				
TOTAL DWELLING UNITS PROPOSED = 198	(
ASSUMPTIONS: 49% FOR 1 BEDROOM = 97 UNITS 49% FOR 2 BEDROOM = 97 UNITS	\			
2% FOR 3 BEDROOM = 4 UNITS			REMAINS OF	
1 BEDROOM: 1.5 X 97 = 146 SP/ 2 BEDROOMS: 2.0 X 97 = 194 SP/	NCES REQUIRED		FOUNDATION	
3 BEDROOMS: $2.0 \times 4 = 8 \text{ SP/}$	NCES REQUIRED			
348 TOT 16 ACC	AL SPACES REQUIRED //			<u> </u>
SURFACE PARKING 141 TO	AL SPACES PROVIDED			
PARKING UNDER BUILDING 108 10 249 TO 16 AC	AL SPACES PROVIDED AL SPACES PROVIDED SESSIBLE SPACES PROVIDED		5 STORY RESIDENTIAL	ACCES 1
	LESSIBLE SPACES PROVIDED		66 UNITS	
<u>CDD DISTRICT - FIRE STATION</u> 1. THERE IS NO OFF-STREET PARKING REQUIREMENT INDIC	ATED IN ZONING CODE.		ONE LEVEL BELOW)	8
PARKING REQUIRED: N/A 27 TOTAL	SPACES PROVIDED			
2 ACCESSIE	BLE SPACES PROVIDED			
<u>CDD DISTRICT - OVERFLOW PARKING</u> THERE IS NO OFF-STREET PARKING REQUIREMENT INDICATED I	N ZONING CODE.			I HINARIA
Parking required: N/A 27 total 3	SPACES PROVIDED VGLE			
	ENCE			
			€\ <i>\</i> \\\\`} } +	
DENSITY BONIES DOMISIONS (SECTION 070 40 11)		7 / 1 / / / /		
DENSITY BONUS PROVISIONS (SECTION 270-19.H.):				
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STORM DRAIN EASMT. SEE REF.#3 HHREC/WATER/STEEL RIM=139.22'-89.11-1-95 NO ACCESS GILLAN CANTY-ROSS MHST BENCH ROAD MHST RIM=120.96'______ NE=115.4'________ S=115.3' RIM=139.15 89.15-1-1 LANDS N/F VILLAGE OF OSSINING HIGHWAY AND UTILITY EASMT. SEE REF.#2 TRAIL ACCESS ALONG SANDY RIM=114.56 FND. #4 REBAR 1.0'N,0.2'E - Existing Property Boundary 89.15-1-3 LANDS N/F SUZANNE UPSCHUTZ BUILDING SETBACK/ LINE, TYP. PROPERTY - APPROXIMATE LOCATION O EXISTING DWELLING TRAIL ACCESS // ALONG SANDY/ DRIVE 89.15-1-2 LANDS N/F OSSINING RIVER ASSOCIATES, INC (0.61, ACRES PER TAX INFO) MOUND LOOKOUT TRAIL/BIKE PATH -12' WIDE 5 STORY RESIDENTIAL 8,250± SF FOOTPRINT 33 UNITS (18 PARKING SPACES ONE LEVEL BELOW) • 10 STORMWATER TREATMENT AREA STORMWATER TREATMENT AREA STORMWATER TREATMENT AREA BOTTOMLESS -ARCHED CULVERT 25 SPACES 5 STORY RESIDENTIAL 16,500± SF FOOTPRINT 66 UNITS (36 PARKING SPACES ONE LEVEL BELOW) (1)STORMWATER TREATMENT AREA 5/STORY RESIDENTIAL 8/250± SF FOOTPRINT 33 UNITS (18 PARKING SPACES ONE LEVELS BELOW) BUILDING SETBACK LIN W PAINT NV=8 60"CMP(CRUSH≩L ROSION AREA WATERCOURSE, TYP. -/ INV=85.2' - 8"RCP -ACOE WETLANDS TO REMAIN, TYP. AREA=502± SQ.FT. 89.15-1-72 LANDS N/F EASTLAND DEVELOPMENT CORP STONE DRAINAGE STRUCTURES



	Project Manager: G. URSPRUNG, PE
	Designed by: S. HARRISON
	Drawn by: S. HARRISON
	Checked by: G.URSPRUNG, PE
	Date Issued: OCTOBER 24, 2016
	Scale:
Date	1" = 40 '
Project Number:	File Name:
10161.00	CP105.DWG
Drawing Number:	

§ 270-25A. PDO Preservation Density Overlay.

- A) Purpose. To incentivize responsible high density development in the CDD and PW districts where exceptional conservation or sustainability goals can be achieved and clearly measurable benefits to municipal infrastructure, services, and affordable housing goals are also served by the development.
- B) Uses. Permitted principal, accessory, conditional and special permit uses shall be as provided in Appendix A.
- C) Additional accessory uses. In addition to the permitted accessory uses specified in Appendix A and the requirements found in § 270-26, the following are permitted accessory uses and requirements:
 - Wading pool or swimming pool incidental to the residential use on the premises and not operated for gain, provided that any swimming pool shall be subject to the requirements of § 270-32 or § 270-33.
 - 2) Bars or taverns, indoor entertainment or recreation; provided, however, that they are an integral part of the primary use, the total square footage of such uses shall not constitute more than 30% of the building area and the site can accommodate any required additional parking.
 - 3) Clubhouses and community centers constructed within a residential community for the use by its residents, which shall be operated by a homeowners, co-op or condominium association.
- D) Parking requirements. Parking requirements in the PDO District shall be one space for units with one bedroom and studio/efficiency units, and one and one-half spaces for units with two or more bedrooms for residential development, and otherwise shall conform to the requirements set forth in Appendix C for the CDD and PW districts. Where such provisions conflict, the lesser requirement shall be applicable to a development in the PDO.
- E) Special provisions applicable to CDD.
 - 1) Deductions from developable land area. Land located in the PDO, and the developments associated therewith, have been identified as having unique, natural environmental features. In order to help preserve and conserve these features, the following lands shall be deducted from the developable land area for the purposes of determining whether a development proposal complies with coverage, lot area and density requirements: jurisdictional wetlands shall be deducted in their entirety.
 - 2) Qualified Developments. A development site which meets the following criteria shall be a "Qualified Development" and upon petition therefore shall be designated as such:
 - a) The total assemblage of parcels proposed for development must be under common ownership or under contract to the applicant at the time of the application for designation.

- b) The gross acreage of the total assemblage of parcels proposed for development must be at least 10 acres.
- c) At least 90 % of the total assemblage of parcels proposed for development must be within the CDD or a PW district.
- d) The development proposal must preserve at least 30% of the assemblage's gross land area as permanent public open space or public park space.
- e) The development proposal must include at least 15% affordable units.
- f) The development proposal must provide for an on- or off-site contribution to non-site-related infrastructure improvements. Non-site-related improvements would be improvements that are not directly needed, required or related to the development of the proposed project but will provide to the Village a capital or infrastructure improvement or construction project, at the developer's expense under the direction of the Village Engineer and Village Manager. A capital or infrastructure project which satisfies this qualification of a Qualified Development shall be determined and approved by the Village Engineer, whose recommendation shall describe the project in writing as part of the record of the site plan or other land use approval review process.

270 Attachment 1

Village of Ossining

Appendix A, Use Tables Table A-1: Permitted, Conditional and Special Permit Principal Uses in Business and Mixed-Use Districts and Planned Waterfront Subdistricts [Amended 1-20-2016 by L.L. No. 1-2016]

USE							DIS	TRICT							
	PC	NC-1	NC-2	VC	GB	0-R	N-JS	S-JS	CDD	RDD	IR	PW-a	q-Wq	PW-c	PDO
Residential Use Group															
Residential dwelling units	du	с	С	С	du	du	С	du	с	ds	с	с	с	с	b
Commercial Use Group															
Adult entertainment uses	с	du	du	du	du	du	du	du	du	du	du	du	du	du	du
Animal-related uses, general	d	d	d	d	d	du	d	du	du	d	d	d	d	d	d
Animal-related uses, intensive	С	с	С	du	c	du	du	du	du	du	du	du	du	du	du
Bar or tavern uses	С	с	э	С	du	du	э	э	du	с	с	с	с	du	С
Cemeteries	np	np	du	du	du	np	du	du	du	du	du	np	du	np	np
Entertainment or recreation uses, indoor	С	c	С	С	с	du	du	du	du	с	С	с	э	с	c
Entertainment or recreation uses, outdoor	du	du	du	du	d	du	du	du	du	d	d	d	d	du	d
Lodging uses, bed-and-breakfasts	du	c	c	С	du	du	с	du	c	c	c	c	c	c	c
Lodging uses, hotels	c	с	c	с	ds	d	du	du	d	d	d	du	d	d	d
Office uses, general	d	d	d	d	d	d	d	d	d	d	d	d	d	d	d
Office uses, live-work	du	с	э	С	du	du	э	du	с	с	с	с	с	с	c
Office uses, medical and dental	р	p	d	d	d	p	С	du	с	с	с	с	с	с	С
Parking uses, nonaccessory	np	с	с	с	du	np	du	с	du	du	с	с	с	с	du
Restaurants	р	с	С	d	d	np	d	d	d	d	d	p	d	p	p
Retail sales and service uses, sales oriented	p	р	d	d	p	np	b	d	c	d	d	p	d	b	d
Retail sales and service uses, personal service oriented	d	d	d	d	d	du	d	d	с	d	d	d	d	d	d
Funeral parlors, taxidermists, mortuaries, crematoriums	du	c	ပ	c	c	du	du	dN	du	du	du	du	du	ပ	du

270 Attachment 1:1

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USE							DIS	TRICT							
	PC	NC-1	NC-2	VC	GB	O-R	SP-N	SP-S	CDD	RDD	IR	PW-a	PW-b	PW-c	PDO
Retail sales and service uses, repair oriented	b	р	p	b	p	du	b	Р	du	b	p	b	b	b	С
Retail sales and service uses, outdoor sales oriented	с	с	с	du	p	du	du	Np	du	с	с	с	c	du	du
Vehicle-related uses, general	d	с	с	с	b	du	du	Np	du	du	с	du	du	du	du
Vehicle related uses, general plus	c	с	с	du	d	du	du	Np	du	du	du	du	du	du	du
Vehicle-related uses, intensive	ds	du	du	du	с	du	du	Np	du	du	du	du	du	du	du
Civic and Institutional Use Group															
Clubhouses, community centers	du	с	с	с	du	du	с	Np	с	с	c	с	c	с	d
Day-care and nursery schools	c	с	с	с	с	du	du	Np	с	du	с	с	с	с	С
Educational uses, elementary or	du	с	с	с	du	du	du	Np	d	d	d	d	d	d	d
secondary															
Educational uses, specialized	d	b	р	d	d	du	du	Np	c	c	ပ	c	c	c	d
Educational uses, higher learning	c	с	с	c	c	c	du	Np	sp	du	ds	du	du	du	ds
Hospitals	ds	np	np	np	sp	с	np	Np	с	du	с	du	np	du	du
Infrastructure and utilities uses,	d	d	d	d	d	d	ds	Sp	ds	ds	ds	ds	ds	ds	d
general															
Infrastructure and utilities uses, intensive	ds	ds	ds	ds	ds	ds	du	ЧN	sp	sp	ds	ds	ds	ds	ds
Municipal uses	¢	5	ų	c	5	¢	¢	d	¢	5	5	5	٩	2	5
Places of worship	du	. J	L O	c	du	٩	du	Р	- v	du	່ວ	د <u>ا</u>	L O	- v	L O
Senior living facilities	du	с	c	c	du	d	du	dN	c	du	ပ	c	c	c	c
Water-related recreation facilities	du	du	du	du	du	du	d	Ρ	b	d	d	b	b	b	b
Industrial Use Group															
Artisan workspace, general	d	d	þ	d	d	du	d	Р	d	d	d	d	d	d	d
Artisan workspace, intensive	c	du	du	du	ပ	du	du	Np	du	ပ	ပ	ပ	c	ပ	c
Light manufacturing	du	du	du	du	du	du	du	Np	du	du	ပ	c	du	du	du
Self-storage uses	du	du	du	du	ပ	du	du	Np	du	du	du	ပ	c	du	du
Warehouse and freight movement uses	du	du	du	du	ပ	du	du	Np	du	c	du	c	ပ	du	du

NOTE: The column under each zoning classification indicates whether the use is permitted (p), not permitted (np), conditionally permitted (c) or permitted as a special use (sp).

270 Attachment 1:2

05 - 01 - 2016

270 Attachment 2

Village of Ossining

Appendix A, Use Tables Table A-2: Permitted Accessory Uses in Business and Mixed-Use Districts and Planned Waterfront Subdistricts [Amended 8-2-2011 by L.L. No. 3-2011]

USE							DIS	TRICT							
	PC	NC-1	NC-2	VC	GB	O-R	SP-N	S-JS	CDD	RDD	IR	PW-a	PW-b	PW-c	DDO
Clubhouses, community centers	du	du	du	du	du	du	du	du	b	b	d	d	b	b	b
Drive-through facilities	b	du	du	du	p	du	du	du	d	b	b	d	b	du	p
Fences and walls	d	d	d	b	d	d	b	d	d	b	d	d	d	d	d
Home-based businesses	n/a	d	d	b	n/a	n/a	b	du	d	b	d	d	d	d	d
Home occupations	n/a	d	d	d	n/a	n/a	d	du	d	d	d	d	d	d	d
Garage, private	d	d	d	d	d	d	d	d	d	d	d	d	d	d	d
Off-street parking and loading	b	b	b	b	p	b	b	b	b	b	b	d	b	b	p
Outdoor dining	d	d	d	d	d	d	b	d	d	b	d	d	d	d	d
Outdoor storage	d	d	d	d	d	d	d	d	d	d	d	d	d	d	d
Outdoor displays	d	d	d	d	d	du	b	d	d	b	d	d	d	d	d
Outdoor accessory recreation	du	du	du	du	p	b	du	du	d	b	b	d	b	b	d
Signs	d	d	d	d	d	d	d	d	d	d	d	d	Р	d	b

NOTE: The column under each zoning classification indicates whether the use is permitted (p), not permitted (np), conditionally permitted (c) or permitted as a special use (sp).

270 Attachment 9

Village of Ossining

Appendix B, Bulk Requirements Table B-5: Bulk Requirements for PDO Preservation Density Overlay]

Setbacks	
Minimum lot area	10 acres
Buffer for lots abutting a residential district (ft.)	25
Minimum setback for buildings, parking or loading	30 ft. of any street or lot line
areas	
Minimum distance between any two buildings	35
except attached dwellings sharing a party wall (ft.)	
Residential Requirements	
Density	16 units per acre
Bedroom mix	one-bedroom units or studios: 10% of
	total units
	two-bedroom units: 20% of total units
Heights	
Maximum building height (stories/ft.), whichever is	6.0/72
less	
Coverage	
Maximum impervious coverage (percent)	50
Maximum building coverage (percent)	30
Open Space	
Minimum open space	25% of lot area

Building width and open area. The total cumulative width of building, structures, solid fences and walls more than 36 inches in height shall not occupy more than 70% of the width of a parcel as measured along a line substantially parallel to the Hudson River, and the maximum building width for each structure or building shall not be more than 250 feet measured along a line substantially parallel to the Hudson River. Of the remaining open area, one uninterrupted space shall be at least 25% of such parcel width, unless the Planning Board approves more than one view corridor totaling 25%. Excluded are existing Village of Ossining designated historical buildings or any parcel or structure that is deemed by the Planning Board as irrelevant to preserving view corridors either to or from the Hudson River.

270 Attachment 16

Village of Ossining Appendix

C, Parking Requirements Table C-2: Parking Requirements in VC, RDD, SP-N, SP-S, PDO and Planned Waterfront Districts (PW-a, PW-b and PW-c)

Use	Minimum Spaces
Residential Use Group	
Residential dwellings units	1 space for units an efficiency or studio; 1 space for units with 1 bedroom; 1.5 spaces for units with 2 or more bedrooms
Commercial Use Group	
Animal-related uses, general	1 space per 200 sq. ft. of gross floor area
Animal-related uses, intensive	1 space per 400 sq. ft. of gross floor area
Bar or tavern uses	1 space for each 4 seats plus 1 space for each person employed therein
Entertainment or recreation uses, indoor	1 space per 400 sq. ft. of gross floor area
Entertainment or recreation uses, outdoor	1 space per 2,000 sq. ft. of outdoor area open to the public
Lodging uses, bed-and-breakfast	1 space per guest room
Lodging uses, hotel	1 space per guest room, plus 1 space per 60 sq. ft. of net floor area in meeting halls, plus 1 space per 4 seats and 0.5 employee in restaurants open to the public
Office uses, general	1 space per 400 sq. ft. of gross floor area
Office uses, live-work	No additional spaces required beyond those required for the dwelling
Office uses, medical-professional	1 space per 300 sq. ft. of gross floor area
Restaurants	1 space for each 4 seats plus 1 space for each person employed therein
Retail sales and service uses, sales oriented	1 space per 350 sq. ft. of gross floor area
Retail sales and service uses, personal service oriented	1 space per 350 sq. ft. of gross floor area
Funeral parlors	1 space per 300 sq. ft. of gross floor area
Retail sales and service uses, repair oriented	1 space per 400 sq. ft. of gross floor area
Retail sales and service uses, outdoor sales oriented	1 space per 400 sq. ft. of outdoor sales area accessible to customers
Vehicle-related uses, general and general plus	1 space per 350 sq. ft. of gross floor area
Vehicle-related uses, intensive	1 space per 350 sq. ft. of gross floor area, plus 1 space for customers and employees per 1,000 sq. ft. of outdoor sales and storage area
Civic/Institutional Use Group	
Clubhouses, community centers, places of worship	1 space per 4 seats. If benches or pews are provided, 24 linear inches of bench or pew

OSSINING (CODE
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Uno	Minimum Suggar
	Winninum Spaces
Educational uses, specialized	space shall be equivalent to 1 seat. If no seats
Educational uses, higher learning	are provided, 6 square feet of floor area in
	each assembly room and classroom shall be
	equivalent to 1 seat
Educational uses clementary or secondary	2 spaces per elegercom plus 1 space per 19
Educational uses, elementary of secondary	2 spaces per classioni, plus i space per 18
	square feet of floor area in each gymnasium
	and assembly hall
Day-care and nursery schools	1 space per employee and 1 space per 5
	children. If there is a drop-off area where at
	least 5 cars can queue up, then it could be
	reduced to 1 space per 10 children.
Hospitals	1 space per 400 sq ft of gross floor area
Senior living facilities	1 space per employee at the largest shift and 1
Senior riving racinties	anges per 2 units
Water-related recreation facilities	1 space per 2,000 sq. ft. of public outdoor
	area, plus 1 space per boat slip
Industrial Use Group	
Artisan workspaces, general and intensive	1 space per 500 sq. ft. of gross floor area
Light manufacturing	1 space per 1,000 sq. ft. of gross floor area
Self-storage uses	1 space per 20 storage units
Warehouse and freight movement uses	1 space per 1,000 sq. ft. of gross floor area

NOTE: Space requirements for uses not provided in the above table shall be subject to the determination of the Planning Board. Parking ratios listed under the table do not indicate if the use is permitted in the district. See Appendix A for permitted uses.

EXHIBIT E

Joseph P. Eriole, eso. **The Eriole Law Firm, P.C** P.O. Box 4031 Kingston, NY 12402 845.417.4267 erioleesq@gmail.com

Full Environmental Assessment Form Part 1 - Project and Setting

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the project sponsor to verify that the information contained in Part 1 is accurate and complete.

A. Project and Sponsor Information.

Name of Action or Project:		
Project Location (describe, and attach a general location map): The project is located along Snowden Avenue to the west of the Ossining Fire Department Drive, to the east by the Old Croton Aqueduct and to the southeast by Snowden Avenue	Northside Station. It is bordered to the	ne north by Sandy
Brief Description of Proposed Action (include purpose or need):		
Name of Applicant/Sponsor:	Telephone:	
	E-Mail:	
Address:		
City/PO:	State:	Zip Code:
Project Contact (if not same as sponsor; give name and title/role):	Telephone:	I
	E-Mail:	
Address:		
City/PO:	State:	Zip Code:
Property Owner (if not same as sponsor):	Telephone:	
	E-Mail:	
Address:		
City/PO:	State:	Zip Code:

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship.	("Funding"	'includes grants,	loans, t	tax relief,	and any c	other forms	of financial
assistance.)							

Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Council, Town Board, □ Yes □ No or Village Board of Trustees		
b. City, Town or Village □ Yes □ No Planning Board or Commission		
c. City Council, Town or □ Yes □ No Village Zoning Board of Appeals		
d. Other local agencies \Box Yes \Box No		
e. County agencies □ Yes □ No		
f. Regional agencies □ Yes □ No		
g. State agencies □ Yes □ No		
h. Federal agencies \Box Yes \Box No		
 i. Coastal Resources. <i>i</i>. Is the project site within a Coastal Area, 	or the waterfront area of a Designated Inland Wa	aterway? □ Yes □ No
<i>ii.</i> Is the project site located in a communit <i>iii.</i> Is the project site within a Coastal Erosic	y with an approved Local Waterfront Revitalizati on Hazard Area?	on Program? \Box Yes \Box No \Box Yes \Box No

C. Planning and Zoning

C.1. Planning and zoning actions.	
 Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? If Yes, complete sections C, F and G. If No, proceed to question C.2 and complete all remaining sections and questions in Part 1 	□ Yes □ No
C.2. Adopted land use plans.	
a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located?	\Box Yes \Box No
If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located?	□ Yes □ No
b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?)	□ Yes □ No
If Yes, identify the plan(s):	
3) The Old Croton Aqueduct and Sing Sing Prison led to the selection of Ossining as State Heritage Area.	
c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan?If Yes, identify the plan(s):	□ Yes □ No

□ Yes □ No
\Box Yes \Box No
□ Yes □ No

D.1. Proposed and Potential Development a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all

components)?					
b. a. Total acreage of the site of the proposed action?	acres				
b. Total acreage to be physically disturbed?	acres				
c. Total acreage (project site and any contiguous properties) owned					
or controlled by the applicant or project sponsor?	acres				
c. Is the proposed action an expansion of an existing project or use?	\Box Yes \Box No				
<i>i</i> . If Yes, what is the approximate percentage of the proposed expansion	sion and identify the units (e.g., acres, miles, housing units,				
square feet)? % Units:					
d. Is the proposed action a subdivision, or does it include a subdivision?	$\square Yes \square No$				
If Yes,					
<i>i</i> . Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)					
<i>u</i> . Is a cluster/conservation layout proposed?	\Box Yes \Box No				
iii. Minimum and maximum proposed let sizes? Minimum	Maximum				
<i>iv.</i> Minimum and maximum proposed for sizes? Minimum	Maximum				
e. Will proposed action be constructed in multiple phases?	\Box Yes \Box No				
<i>i</i> . If No, anticipated period of construction:	months				
<i>ii.</i> If Yes:					
• Total number of phases anticipated					
Anticipated commencement date of phase 1 (including demoli	lition) month year				
 Anticipated completion date of final phase 	monthyear				
 Generally describe connections or relationships among phases, 	s, including any contingencies where progress of one phase may				
determine timing or duration of future phases:					
f. Does the project	et include new resid	lential uses?			\Box Yes \Box No
------------------------------	-------------------------	---------------------------------	-------------------------	---	--------------------------
If Yes, show num	bers of units propo	osed.			
	One Family	<u>Two Family</u>	<u>Three</u> Family	Multiple Family (four or more)	
Initial Phase					
At completion					
of all phases					
g Does the prop	sed action include	new non-residentia	al construction (inclu	uding expansions)?	
If Yes.	sed action menude	new non-residentia	in construction (mere	tunig expansions):	
<i>i</i> . Total number	of structures				
ii. Dimensions (in feet) of largest p	roposed structure:	height;	width; andlength	
iii. Approximate	extent of building	space to be heated	or cooled:	square feet	
h. Does the prope	osed action include	construction or oth	er activities that wil	l result in the impoundment of any	\Box Yes \Box No
liquids, such a	s creation of a wate	r supply, reservoir,	, pond, lake, waste la	agoon or other storage?	
If Yes,			-		
<i>i</i> . Purpose of the	e impoundment:				
<i>ii</i> . If a water imp	oundment, the prin	cipal source of the	water:	□ Ground water □ Surface water strear	ns \Box Other specify:
<i>iii</i> . If other than w	vater, identify the t	ype of impounded/	contained liquids and	d their source.	
iv. Approximate	size of the propose	d impoundment.	Volume:	million gallons; surface area:	acres
v. Dimensions o	f the proposed dam	or impounding str	ructure:	_ height; length	
vi. Construction	method/materials	for the proposed da	m or impounding str	ructure (e.g., earth fill, rock, wood, conc	rete):
D.2. Project Op	erations				
a Does the prope	used action include	any excavation mi	ining or dredging d	uring construction operations or both?	□ Yes □ No
(Not including	general site prepar	ation, grading or in	stallation of utilities	or foundations where all excavated	- 105 - 110
materials will r	remain onsite)				
If Yes:	,				
<i>i</i> .What is the pu	rpose of the excavation	ation or dredging?			
ii. How much ma	terial (including ro	ck, earth, sediment	s, etc.) is proposed t	o be removed from the site?	
Volume	(specify tons or cu	bic yards):			
Over wh	hat duration of time	?			
<i>iii</i> . Describe natu	re and characteristi	cs of materials to b	e excavated or dredg	ged, and plans to use, manage or dispose	e of them.
iv. Will there be	onsite dewatering	or processing of ex	cavated materials?		\Box Yes \Box No
If yes, descri	be				
<i>v</i> . What is the to	otal area to be dredg	ged or excavated?		acres	
vi. What is the m	aximum area to be	worked at any one	time?	acres	
vii. What would t	be the maximum de	pth of excavation of the second	or dredging?	teet	
<i>viii.</i> Will the exca	avation require blas	ting? IBD			\Box Yes \Box No
ix. Summarize su	e reclamation goals				
b. Would the prop	posed action cause	or result in alteration	on of, increase or de	crease in size of, or encroachment	\Box Yes \Box No
into any existi	ng wetland, waterb	ody, shoreline, bea	ch or adjacent area?	-	
If Yes:					
<i>i</i> . Identify the w	vetland or waterbod	ly which would be	affected (by name, w	vater index number, wetland map numb	er or geographic
description):					

<i>ii.</i> Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placen alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in so	nent of structures, or quare feet or acres:
<i>iii.</i> Will proposed action cause or result in disturbance to bottom sediments? If Yes, describe:	□ Yes □ No
<i>iv.</i> Will proposed action cause or result in the destruction or removal of aquatic vegetation? TBD	\Box Yes \Box No
If Yes:	
acres of aquatic vegetation proposed to be removed:	
expected acreage of aquatic vegetation remaining after project completion:	
• purpose of proposed removal (e.g. beach clearing, invasive species control, boat access).	
proposed method of plant removal:	
if chemical/herbicide treatment will be used, specify product(s):	
v. Describe any proposed reclamation/mitigation following disturbance:	
a Will the proposed action use or greate a new demend for water?	
If Yes:	
<i>i</i> . Total anticipated water usage/demand per day: gallons/day (303 be	drooms, fire station)
<i>ii.</i> Will the proposed action obtain water from an existing public water supply?	\Box Yes \Box No
If Yes:	
Name of district or service area:	
 Does the existing public water supply have capacity to serve the proposal? TBD 	\Box Yes \Box No
• Is the project site in the existing district?	\Box Yes \Box No
• Is expansion of the district needed?	\Box Yes \Box No
• Do existing lines serve the project site?	\Box Yes \Box No
<i>iii</i> . Will line extension within an existing district be necessary to supply the project? If Yes:	□ Yes □ No
Describe extensions or capacity expansions proposed to serve this project:	
The Ossining Water System serves the entirety of the Village of Ossining. Water System se	<u>er is supplied via two surface water</u> w Croton Reservoir.
<i>iv.</i> Is a new water supply district or service area proposed to be formed to serve the project site? If, Yes:	\Box Yes \Box No
Applicant/sponsor for new district:	
Date application submitted or anticipated:	
Proposed source(s) of supply for new district:	
v. If a public water supply will not be used, describe plans to provide water supply for the project:	
<i>vi</i> . If water supply will be from wells (public or private), maximum pumping capacity: gallons/m	inute.
d. Will the proposed action generate liquid wastes?	\Box Yes \Box No
If Yes:	
<i>i.</i> Total anticipated liquid waste generation per day: gallons/day	
<i>ii</i> . Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe a approximate volumes or proportions of each):	Ill components and
<i>iii.</i> Will the proposed action use any existing public wastewater treatment facilities?	□ Yes □ No
 Name of wastewater treatment plant to be used: 	
• Name of district:	
• Does the existing wastewater treatment plant have capacity to serve the project? TBD	\Box Yes \Box No
• Is the project site in the existing district?	\Box Yes \Box No
• Is expansion of the district needed?	\Box Yes \Box No

• Do existing sewer lines serve the project site?	\Box Yes \Box No
• Will line extension within an existing district be necessary to serve the project?	□ Yes □ No
If Vos	- 105 - 110
• Describe extensions or capacity expansions proposed to serve this project:	
<i>iv.</i> Will a new wastewater (sewage) treatment district be formed to serve the project site?	\Box Yes \Box No
If Yes:	
Applicant/sponsor for new district:	
Date application submitted or anticipated:	
• What is the receiving water for the wastewater discharge?	
v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including spec	ifving proposed
receiving water (name and classification if surface discharge, or describe subsurface disposal plans):	5 01 1
w Describe any plans or designs to capture, recycle or reuse liquid waste:	
<i>vi.</i> Describe any plans of designs to capture, recycle of reuse inquid waste	
e Will the proposed action disturb more than one acre and create stormwater runoff either from new point	□ Yes □ No
sources (i.e. ditches nines swales curbs gutters or other concentrated flows of stormwater) or non-noint	= 105 = 110
sources (i.e. sheat flow) during construction or post construction?	
If you	
II Tes:	
<i>i</i> . How much impervious surface will the project create in relation to total size of project parcel?	
21/.764 Square feet or <u>5.00+</u> acres (impervious surface)	
$603.876\pm$ Square feet or $13.86\pm$ acres (parcel size)	
<i>ii</i> . Describe types of new point sources	
<i>iii.</i> Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent p	oroperties,
groundwater on site surface water or off site surface waters)?	
groundwater, on-site surface water of on-site surface waters)?	
If to surface waters, identify receiving water bodies or wetlands:	
If to surface waters, identify receiving water bodies or wetlands:	
If to surface waters, identify receiving water bodies or wetlands:	
If to surface waters, identify receiving water bodies or wetlands: Will stormwater runoff flow to adjacent properties?	□ Yes □ No
If to surface waters, identify receiving water bodies or wetlands: Will stormwater runoff flow to adjacent properties? Will stormwater runoff flow to adjacent properties?	□ Yes □ No □ Yes □ No
	□ Yes □ No □ Yes □ No
	□ Yes □ No □ Yes □ No □ Yes □ No
	□ Yes □ No □ Yes □ No □ Yes □ No
	□ Yes □ No □ Yes □ No □ Yes □ No
	□ Yes □ No □ Yes □ No □ Yes □ No
	□ Yes □ No □ Yes □ No □ Yes □ No
• If to surface waters, identify receiving water bodies or wetlands: • Will stormwater runoff flow to adjacent properties? <i>iv.</i> Does proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? If Yes, identify: <i>i.</i> Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles) <i>ii.</i> Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)	□ Yes □ No □ Yes □ No □ Yes □ No
If to surface waters, identify receiving water bodies or wetlands:	□ Yes □ No □ Yes □ No □ Yes □ No
 If to surface waters, identify receiving water bodies or wetlands:	□ Yes □ No □ Yes □ No □ Yes □ No
 If to surface waters, identify receiving water bodies or wetlands: Will stormwater runoff flow to adjacent properties? <i>iv.</i> Does proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? If Yes, identify: <i>i.</i> Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles) <i>ii.</i> Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers) 	□ Yes □ No □ Yes □ No □ Yes □ No
	□ Yes □ No □ Yes □ No □ Yes □ No
 If to surface waters, identify receiving water bodies or wetlands: If to surface waters, identify receiving water bodies or wetlands: Will stormwater runoff flow to adjacent properties? Will stormwater runoff flow to adjacent properties? Does proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? If Yes, identify: Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles) ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers) iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation) g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? N/A	□ Yes □ No □ Yes □ No □ Yes □ No □ Yes □ No
	□ Yes □ No □ Yes □ No □ Yes □ No □ Yes □ No
 If to surface waters, identify receiving water bodies or wetlands: If to surface waters, identify receiving water bodies or wetlands: Will stormwater runoff flow to adjacent properties? <i>iv</i>. Does proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? If Yes, identify: <i>i</i>. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles) <i>ii</i>. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers) <i>iii</i>. Stationary sources during operations (e.g., process emissions, large boilers, electric generation) g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? N/A If Yes: <i>i</i> to be project site located in an Air quality non attainment area? 	□ Yes □ No □ Yes □ No □ Yes □ No □ Yes □ No □ Yes □ No
 If to surface waters, identify receiving water bodies or wetlands:	□ Yes □ No □ Yes □ No
 If to surface waters, identify receiving water bodies or wetlands:	□ Yes □ No □ Yes □ No
 If to surface waters, identify receiving water bodies or wetlands:	□ Yes □ No □ Yes □ No
indudwalet, on-site surface water of on-site surface waters): If to surface waters, identify receiving water bodies or wetlands:	□ Yes □ No □ Yes □ No
induction of the surface water of on-site surface waters): If to surface waters, identify receiving water bodies or wetlands: • Will stormwater runoff flow to adjacent properties? <i>iv.</i> Does proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? If Yes, identify: <i>i.</i> Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles) <i>iii.</i> Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers) <i>iii.</i> Stationary sources during operations (e.g., process emissions, large boilers, electric generation) g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? N/A If Yes: <i>i.</i> Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) <i>ii.</i> In addition to emissions as calculated in the application, the project will generate: •	□ Yes □ No □ Yes □ No □ Yes □ No □ Yes □ No □ Yes □ No
	□ Yes □ No □ Yes □ No □ Yes □ No □ Yes □ No □ Yes □ No
	□ Yes □ No □ Yes □ No □ Yes □ No □ Yes □ No □ Yes □ No
	□ Yes □ No □ Yes □ No □ Yes □ No □ Yes □ No □ Yes □ No
	□ Yes □ No □ Yes □ No

 h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? If Yes: <i>i</i>. Estimate methane generation in tons/year (metric):	□ Yes □ No
 i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust): 	□ Yes □ No
 j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? If Yes: <i>i</i>. When is the peak traffic expected (Check all that apply): □ Morning □ Evening □ Weekend □ Randomly between hours of to <i>ii</i>. For commercial activities only, projected number of semi-trailer truck trips/day:	□ Yes □ No -
 <i>iv.</i> Does the proposed action include any shared use parking? <i>v.</i> If the proposed action includes any modification of existing roads, creation of new roads or change in existing a <i>vi.</i> Are public/private transportation service(s) or facilities available within ½ mile of the proposed site? <i>vii.</i> Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? 	□ Yes □ No access, describe: □ Yes □ No □ Yes □ No □ Yes □ No
 k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? N/A If Yes: <i>i</i>. Estimate annual electricity demand during operation of the proposed action:	□ Yes □ No
 <i>ii.</i> Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/lother): <i>iii.</i> Will the proposed action require a new, or an upgrade to, an existing substation? 	local utility, or □ Yes □ No
1. Hours of operation. Answer all items which apply. ii. During Operations: i. During Construction: ii. During Operations: • Monday - Friday: • Monday - Friday: • Saturday: • Saturday: • Sunday: • Sunday: • Holidays: • Holidays:	

m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction,	□ Yes □ No
If yes:	
<i>i</i> . Provide details including sources, time of day and duration:	
<i>ii</i> . Will proposed action remove existing natural barriers that could act as a noise barrier or screen?	□ Yes □ No
Describe:	
n Will the proposed action have outdoor lighting?	\Box Yes \Box No
<i>i.</i> Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:	
 Will proposed action remove existing natural barriers that could act as a light barrier or screen? Describe:	□ Yes □ No
 o. Does the proposed action have the potential to produce odors for more than one hour per day? If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures: 	□ Yes □ No
 p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? If Yes: <i>i</i>. Product(s) to be stored	□ Yes □ No -
<i>ii.</i> Volume(s) per unit time (e.g., month, year) <i>iii.</i> Generally describe proposed storage facilities:	
 q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? N/A for Residential If Yes: <i>i</i>. Describe proposed treatment(s): 	□ Yes □ No
<i>ii.</i> Will the proposed action use Integrated Pest Management Practices?	$\Box Yes \Box No$
 r. will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? N/A for Residential If Yes: i. Describe any solid waste(s) to be generated during construction or operation of the facility: Construction: tons per (unit of time) Operation : tons per (unit of time) ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste Construction: 	⊥ Yes ⊥ No
Operation:	
 <i>iii.</i> Proposed disposal methods/facilities for solid waste generated on-site: Construction:	
• Operation:	

If Yes:	s. Does the proposed action include construction or modification of a solid waste management facility?	□ Yes □ No		
 <i>i</i>. Anticipated rate of disposal activities):	If Yes:			
ii. Anticipated rate of disposal/processing: ii. Anticipated rate of disposal/processing: iii. Anticipated rate of disposal/processing: iii. I flandfill, anticipated site life:	<i>i</i> . Type of management or nanding of waste proposed for the site (e.g., recycling or transfer station, composing, fandili, or other disposal activities):			
•	<i>ii.</i> Anticipated rate of disposal/processing:			
•	• Tons/month, if transfer or other non-combustion/thermal treatment, or			
iii. If landfill, anticipated site life:years t. Will proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous □ Yes □ No waste? If Yes: i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility:	Tons/hour, if combustion or thermal treatment			
t. Will proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous □ Yes □ No waste? If Yes: i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility:	iii. If landfill, anticipated site life: years			
If Yes:	t. Will proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste?	\Box Yes \Box No		
 i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility:	If Yes:			
ii. Generally describe processes or activities involving hazardous wastes or constituents:	<i>i</i> . Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility:			
ii. Generally describe processes or activities involving hazardous wastes or constituents:				
iii. Specify amount to be handled or generated tons/month iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents:	<i>ii</i> . Generally describe processes or activities involving hazardous wastes or constituents:			
iii. Specify amount to be handled or generated tons/month iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents:				
<i>iv.</i> Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: <i>v.</i> Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? <i>v.</i> Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? <i>v.</i> Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? <i>v.</i> Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? <i>v.</i> Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? <i>v.</i> Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? <i>v.</i> Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? <i>v.</i> Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? <i>v. v. v.</i>	<i>iii.</i> Specify amount to be handled or generated tons/month			
v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? □ Yes □ No If Yes: provide name and location of facility:	iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents:			
v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? □ Yes □ No If Yes: provide name and location of facility:				
If Yes: provide name and location of facility:	v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility?	\Box Yes \Box No		
If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility: E. Site and Setting of Proposed Action E.1. Land uses on and surrounding the project site a. Existing land uses. i. Check all uses that occur on, adjoining and near the project site. □ Urban □ Industrial □ Commercial □ Residential (suburban) □ Rural (non-farm)	If Yes: provide name and location of facility:			
If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility: E. Site and Setting of Proposed Action E.1. Land uses on and surrounding the project site a. Existing land uses. <i>i</i> . Check all uses that occur on, adjoining and near the project site. D'Urban Industrial Commercial Residential (suburban) Rural (non-farm)				
E. Site and Setting of Proposed Action E.1. Land uses on and surrounding the project site a. Existing land uses. i. Check all uses that occur on, adjoining and near the project site. □ Urban □ Industrial □ Commercial □ Residential (suburban) □ Rural (non-farm)	If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility:			
E. Site and Setting of Proposed Action E.1. Land uses on and surrounding the project site a. Existing land uses. i. Check all uses that occur on, adjoining and near the project site. □ Urban □ Industrial □ Commercial □ Residential (suburban) □ Rural (non-farm)				
 E. Site and Setting of Proposed Action E.1. Land uses on and surrounding the project site a. Existing land uses. i. Check all uses that occur on, adjoining and near the project site. I. Urban Industrial I. Commercial I. Residential (suburban) I. Rural (non-farm) 				
 E.1. Land uses on and surrounding the project site a. Existing land uses. i. Check all uses that occur on, adjoining and near the project site. □ Urban □ Industrial □ Commercial □ Residential (suburban) □ Rural (non-farm) 	E. Site and Setting of Proposed Action			
 a. Existing land uses. <i>i.</i> Check all uses that occur on, adjoining and near the project site. □ Urban □ Industrial □ Commercial □ Residential (suburban) □ Rural (non-farm) 	E.1. Land uses on and surrounding the project site			
i. Check all uses that occur on, adjoining and near the project site.	a. Existing land uses.			
\Box Urban \Box Industrial \Box Commercial \Box Residential (suburban) \Box Rural (non-tarm)	<i>i</i> . Check all uses that occur on, adjoining and near the project site.			
$\Box \Box$ Forest $\Box \Delta$ griculture $\Box \Delta$ quatic $\Box \Box$ () ther (specify):	\Box Forest \Box Agriculture \Box Aquatic \Box Other (specify):			

•

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surfaces Forested

Agricultural

Other

Surface water features

Describe:

Land use or

Covertype

Meadows, grasslands or brushlands (non-

(lakes, ponds, streams, rivers, etc.) Wetlands (freshwater or tidal)

Non-vegetated (bare rock, earth or fill)

agricultural, including abandoned agricultural)

(includes active orchards, field, greenhouse etc.)

Roads, buildings, and other paved or impervious

b. Land uses and covertypes on the project site.

ii. If mix of uses, generally describe:

Current

Acreage

Acreage After

Project Completion

Change

(Acres +/-)

c. Is the project site presently used by members of the community for public recreation? <i>i</i> . If Yes: explain:	□ Yes □ No
 d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? If Yes, i Identify Equilities 	□ Yes □ No
a Dees the project site contain on avisting dam?	
If Yes:	
Dam height: feet	
Dam length: feet	
Surface area: acres	
Volume impounded: gallons OR acre-feet	
<i>ii.</i> Dam's existing hazard classification:	
<i>iii.</i> Provide date and summarize results of last inspection:	
f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facil If Yes:	□ Yes □ No ity?
<i>i</i> . Has the facility been formally closed?	🗆 Yes 🗆 No
If yes, cite sources/documentation:	
<i>ii</i> . Describe the location of the project site relative to the boundaries of the solid waste management facility:	
<i>iii.</i> Describe any development constraints due to the prior solid waste activities:	
g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? If Yes:	□ Yes □ No
<i>i</i> . Describe waste(s) handled and waste management activities, including approximate time when activities occurre	ed:
h. Detential contamination history. Has there been a reported spill at the proposed project site, or have any	
remedial actions been conducted at or adjacent to the proposed site? If Yes:	
<i>i</i> . Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply:	\Box Yes \Box No
□ Yes – Spills Incidents database Provide DEC ID number(s):	
 Yes – Environmental Site Remediation database Provide DEC ID number(s):	
<i>ii</i> . If site has been subject of RCRA corrective activities, describe control measures:	
<i>iii.</i> Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? If yes, provide DEC ID number(s):	□ Yes □ No
<i>iv.</i> If yes to (i), (ii) or (iii) above, describe current status of site(s):	

v. Is the project site subject to an institutional control limiting property uses? TBD	\Box Yes \Box No
If yes, DEC site ID number:	
Describe the type of institutional control (e.g., deed restriction or easement):	
Describe any use limitations:	
 Describe any engineering controls:	
Fxnlain:	
Exp	
E.2. Natural Resources On or Near Project Site	
a. What is the average depth to bedrock on the project site?	
b. Are there bedrock outcroppings on the project site?	\Box Yes \Box No
If Yes, what proportion of the site is comprised of bedrock outcroppings?%	
c. Predominant soil type(s) present on project site: Chatfield-Charlton complex, hilly, very rocky	%
Charlton-Chatfield complex, rolling, very rocky	%
Charlton loam, 2 to 8 percent slopes	%
d. What is the average depth to the water table on the project site? Average: feet	
e. Drainage status of project site soils: Well Drained: % of site	
□ Moderately Well Drained:% of site	
□ Poorly Drained% of site	
f. Approximate proportion of proposed action site with slopes: 0-10%: % of site	e
□ 10-15%:% of sit	e
\Box 15% or greater:% of sit	e
g. Are there any unique geologic features on the project site?	\Box Yes \Box No
If Yes, describe:	
h. Surface water features.	
<i>i</i> . Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers,	□ Yes □ No
ponds or lakes)?	
<i>ii.</i> Do any wetlands or other waterbodies adjoin the project site?	\Box Yes \Box No
If Yes to either <i>i</i> or <i>ii</i> , continue. If No, skip to E.2.i.	
<i>iii.</i> Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal,	\Box Yes \Box No
state of local agency?	nation:
• Streams: Name Classification	
Lakes or Ponds: Name Classification	* <u></u> -
Wetlands: Name Approximate	Size
• Wetland No. (if regulated by DEC)	
v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaire	d \Box Yes \Box No
Waterbodies?	
i. Is the project site in a designated Floodway?	\Box Yes \Box No
j. Is the project site in the 100 year Floodplain?	\Box Yes \Box No
k. Is the project site in the 500 year Floodplain?	\Box Yes \Box No
1. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer?	\Box Yes \Box No
If Yes:	
<i>i</i> . Name of aquifer:	

m. Identify the predominant wildlife species that occupy or use the project site:		
 n. Does the project site contain a designated significant natural community? - If Yes: <i>i.</i> Describe the habitat/community (composition, function, and basis for designation) 	□ Yes □ No	
<i>ii.</i> Source(s) of description or evaluation:		
<i>iii</i> . Extent of community/habitat:		
Currently:a	res	
Following completion of project as proposed: ac	res	
• Gain or loss (indicate + or -):ac	res	
endangered or threatened, or does it contain any areas identified as habitat for an end	angered or threatened species?	
p. Does the project site contain any species of plant or animal that is listed by NYS as special concern?	rare, or as a species of □ Yes □ No	
q. Is the project site or adjoining area currently used for hunting, trapping, fishing or sl	ell fishing?	
If yes, give a brief description of how the proposed action may affect that use:		
E.3. Designated Public Resources On or Near Project Site		
 a. Is the project site, or any portion of it, located in a designated agricultural district ce Agriculture and Markets Law, Article 25-AA, Section 303 and 304? If Yes, provide county plus district name/number:	tified pursuant to □ Yes □ No	
b. Are agricultural lands consisting of highly productive soils present?	\Box Yes \Box No	
<i>i.</i> If Yes: acreage(s) on project site?		
<i>n</i> . Source(s) of soil rating(s):		
 c. Does the project site contain all or part of, or is it substantially contiguous to, a reginatural Landmark? If Yes: i. Nature of the natural landmark: ii. Biological Community iii. Geological Community 	stered National	
 d. Is the project site located in or does it adjoin a state listed Critical Environmental An If Yes: <i>i</i>. CEA name: 	ea? □ Yes □ No	
<i>iii</i> . Designating agency and date:		

 e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on, or has been nominated by the NYS Board of Historic Preservation for inclusion on, the State or National Register of Historic Places? If Yes: i. Nature of historic/archaeological resource: In Archaeological Site If Historic Building or District <i>ii</i>. Name: Old Croton Agueduct, Brandreth Pill Factory, Hose Company 96 Fire Station (Northside Fire Station) 	☑ Yes No
<i>iii.</i> Brief description of attributes on which listing is based:	
1) Led to the selection of Ossining as one of 18 State Heritage area. 2) Being groomed to attract visitors, shoppers and economic de	velopment.
f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?	∕ Yes N o
g. Have additional archaeological or historic site(s) or resources been identified on the project site? TBD If Yes: <i>i</i> . Describe possible resource(s): <u>Hose Company 96 Fire Station (Northside Fire Station)</u> <i>ii</i> . Basis for identification: <u>Eligible for National Register List</u>	Yes No
 h. Is the project site within fives miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource? If Yes: <i>i</i>. Identify resource: NYS Route 9 is designated as a Scenic Road by the New York State Department of Environmental Conser <i>ii</i>. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or etc.): New York State Scenic Roads Program <i>iii</i>. Distance between project and resource: 0.1+ miles 	Yes ☐No vation scenic byway,
 i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666? If Yes: <i>i</i>. Identify the name of the river and its designation: <i>ii</i>. Is the activity consistent with development restrictions contained in 6NYCRR Part 666? 	Yes No

F. Additional Information

Attach any additional information which may be needed to clarify your project.

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification

I certify that the information provided is true to the best of my knowledge.

i contra free and the second provide to the contract of the free second provide the secon	-8-1
Applicant/Sponsor Name Gregg E. Ursprung, P.E.	Date 5/4/17
Signature Mall	Title Sn. Project Mgr.
/00/00	V



Snowden Woods Apartment Complex | OSSINING, NY

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1.1 Background

Ossining River, Inc (Developer) engaged Bergmann Associates to prepare a Fiscal Impact Analysis (FIA) for a proposed apartment complex, referred to as the Snowden Woods Apartment Complex, in the Village of Ossining, NY. The purpose of this FIA is to project public costs and public revenues associated with the development of the Snowden Woods Apartment complex. We understand a significant concern is the potential impact to the Ossining Union Free School District. Therefore, this report estimates public education costs and school property tax revenues resulting from construction and leasing of the project.

1.2 Summary of the Proposed Snowden Woods Apartment Complex

The proposed Snowden Woods Apartment Complex includes 198 one-, two-, and three- bedroom units (Table 1). The complex will be constructed on a vacant, 13.86-acre site located Between Snowden Avenue and Sandy Drive in the Village of Ossining.



Figure 1 Proposed Site

Source: Town of Ossining GIS

The project will include four residential buildings that are each five stories high. There will be 348 parking spaces provided (138 surface parking spaces and 216 below grade).

Table 1.	Proposed	Unit	Mix	at	Snowden	Woods
----------	----------	------	-----	----	---------	-------

Unit Type	Affordable	Market	Total
One Bedroom	15	82	97
Two Bedroom	15	82	97
Three Bedroom	1	3	4
Total Units	30	168	198

Source: Bergmann Associates

The size of units will range from 900 square feet for a one-bedroom unit, to 1,600 square feet for a three-bedroom unit, with an average of 1,100 square feet per unit. Rent rates are expected to be approximately \$3.00 per square foot, equaling monthly gross rents that range from \$2,700 for a one-bedroom unit to \$4,800 for a three-bedroom unit.

Snowden Woods will be marketed as a luxury apartment complex, offering proximity to commercial uses and lifestyle amenities, such as the waterfront and trails. The target market is primarily affluent young-professionals and retirees seeking to downsize. Comparable apartment buildings include Avalon Ossining and Harbor Square.

In compliance with the Village of Ossining's Affordable Housing Law, 15 percent of units will be offered at rent levels that will not exceed 30 percent of annual income for families earning 80 percent of Westchester County's Median Family Income.

1.3 The Ossining Union Free School District

The Ossining Union Free School District is ranked one of the best school districts in the New York City metropolitan area. It serves the Town of Ossining, which includes the Village of Ossining and the Village of Briarcliff Manor. The school district also serves portions of the Town of New Castle and the Town of Yorktown. Total enrollment in 2015-16 was listed at 4,936 students, an increase from 4,142 in 2005-06. The total district budget for 2015-16 was \$117,213,394.1

In 2012, the community approved a \$41.6 million bond proposal to fund infrastructure repairs, new boilers, exterior repairs, expansion of the middle school cafeteria and library, and construction of new middle school and high school classrooms. These improvements created new capacity within the district intended to respond to projected future growth in enrollment.

¹ 2016-17 Proposed Budget, Ossining Union Free School District

A fiscal impact analysis is a type of evaluation method that can help a community make well-informed decisions by identifying the public costs and revenues associated with a proposed project. Fiscal impact analysis does not make decisions, but rather is one of many tools that can help *inform* decision-making within a community. The impact of public costs and revenues is just one many factors that communities consider when reviewing development proposals. We note there are numerous social and environmental impacts not addressed by fiscal impact analysis.

1.4 Definition

Fiscal impact analysis is most effective as an evaluation tool when it is understood in terms of its key features (and limitations): it is generally understood as an estimate of the <u>direct</u>, <u>current</u> and <u>public</u> costs and revenues associated with growth to the jurisdiction in which the growth is taking place. These features are described in detail below:

- **Direct.** Fiscal impact analysis is limited to considering direct costs and revenues and does not consider indirect impacts, such as impacts to neighboring property values or jobs created.
- **Current.** Fiscal impact analysis estimates the current financial impact of development—i.e. as if the project were in use today. Implicit in this is the assumption that changes in costs/prices over time will affect both revenues and costs proportionally (such as inflation) so that the estimate of the current period will stay consistent over time (at least in the near-term).
- **Public.** While development will also have a financial impact on the private sector, fiscal impact analysis only seeks to quantify the cumulative effect on the government's revenues and expenses and not the effect on private interests that are impacted by a development.

It is the features above that generally distinguish a fiscal impact analysis from an economic impact analysis. While a fiscal impact analysis projects the cash flow to the public sector, an economic impact analysis focuses on the cash flow to the private sector, measured in income, jobs, output, and indirect impacts. This report does not include an economic impact analysis.

1.5 Types of Fiscal Impact Analysis

There are multiple types of fiscal impact analysis.² The type of method employed for a specific analysis depends on the goal of the analysis, the type of development being analyzed, and the tax structure of the municipality. The

² Per Capita Multiplier, Average Cost, Marginal Cost, Case Study, Service Standard, Comparable City, Proportional Valuation, and Employment Anticipation.

per capita method is primarily used for residential development and is among the most commonly used methods used in fiscal impact analysis. This method is described below:

Per Capita Multiplier - Average Cost Method

The average per capita multiplier method is one of the most popular methods of completing a fiscal impact analysis. It involves dividing the budget for a particular service by the current population, which yields an estimated service cost per person. For example, it would be assumed that each additional student will generate the same level of costs to the school district as each existing student currently generates. This method is a good starting point, but can lead to a simplistic and understanding of the impacts of a development. The average cost method often must be qualified to reflect the capacity of existing facilities and other local circumstances.

Per Capita Multiplier - Marginal Cost Method

The marginal cost method examines the *marginal* impact of new development by analyzing demand and supply relationships. This method recognizes that excess and deficient capacity exits in communities. Schools are often financed with long-term debt and constructed with the expectation that they will also serve future growth. Therefore, the incremental cost of providing the service to one new student may not be significant. If, however, the capacity of the facilities is depleted, then new growth may require infrastructure investment that pushes the marginal cost of serving new students higher than the average cost.

Estimating the marginal costs of net new students involves determining the ratio of fixed to marginal costs of education. For example, the average spending per student in New York State is \$20,600 per year³. A portion of that amount is driven by fixed operational and maintenance costs, meaning if one student leaves a school, that school does not necessarily save \$20,600. Likewise, one new student does not necessarily cost a school that amount. This is because a portion of school costs are fixed in the short-term. Transportation, building, equipment, and debt service will not change if one student, or even ten students comes to, or leaves the school. Unless a school is a capacity, the school would have to experience a more significant increase in enrollment before considering the addition of a new classroom and teacher. Further, adding a new teacher would increase instructional costs, but would likely not add significantly to overall administrative costs or other operating costs. Depending on the existing capacity of the school, additional new students would not add to operations, transportation, or maintenance costs of existing buildings or add to demand for new buildings.

This analysis considers the marginal cost of serving additional new students generated by the Snowden Woods Apartment Complex. Details and assumptions used in the analysis are described in more detail in the following sections.

³ US Census Bureau, NYS Empire Center, 2016

COSTS & REVENUES

This section describes the assumptions and methods used to estimate the public costs and revenues resulting from construction of the Snowden Woods Apartment Complex. All costs and revenues are estimated at project stabilization (i.e. as if the project were built and leased today).

1.6 Estimated Costs of School Services

There are two key factors associated with estimating the cost of new school enrollment resulting from the construction of the Snowden Woods Apartment Complex: (1) the number of new students generated by the development and (2) the marginal annual cost of each new student. These two factors are described below:

Estimated School-Aged Children (SAC) Generated

The school-aged children (SAC) projections used in this report are based on a review of SAC generation rates applied to multi-family housing developments in municipalities around the US and New York State⁴. There are numerous factors that impact the number of school aged children generated within a development. These factors include the location of the development, size of units, number of bedrooms, rent charged, amenities offered, number of stories in the building, and parking availability.

Given the multitude of factors that can influence SAC generation rates for a multi-family development, this report analyzed two scenarios. Table 2 summarizes SAC generation for each type of unit using a conservative "worst case" scenario.

		SAC Rate				
		Elementary	Middle			Total
Туре	Total Units	School	School	High School	Total Rate	Students
One Bedroom						
Market	82	0.04	0.02	0.01	0.07	6
Affordable	15	0.10	0.10	0.08	0.28	4
Two-Bedroom						
Market	82	0.10	0.04	0.03	0.17	14
Affordable	15	0.20	0.10	0.09	0.39	6
Three-Bedroom						
Market	3	0.34	0.12	0.17	0.63	2
Affordable	1	0.50	0.30	0.20	1.00	1
				Poter	tial students	32

Table 2 School-Aged Children (SAC) Generation Rates (High Estimate)

Source: Rutgers University Center for Urban Policy Research, Residential Demographic Multipliers. Estimates of the Occupants of New Housing. 2006

Note: Monthly rent thresholds for market and affordable units were inflated to 2016 dollars.

⁴ Rutgers University Center for Urban Policy Research, Residential Demographic Multipliers. Estimates of the Occupants of New Housing. 2006.

Error! Not a valid bookmark self-reference. Table 3 summarizes the potential SAC generation rates using a more probable scenario in which one-bedroom units do not generate school aged children.

Middle Total Total Units One Bedroom Market 82 0.00 0 15 Affordable 0.00 0 Two-Bedroom Market 82 0.04 0.10 0.03 0.17 14 Affordable 15 0.20 0.10 0.09 0.39 6 Three-Bedroom Market 3 0.34 0.12 0.17 0.63 2 Affordable 0.50 1 1 0.30 0.20 1.00 **Potential students** 22

Table 3 School-Aged Children (SAC) Generation Rates (Mid/Low Estimate)

It is estimated there will be between 22 and 32 new students generated as a result of the Snowden Woods Apartment Complex (at stabilization).

For purposes of calculating the total education costs, this report uses the scenario that generates the highest number of new students. However, it is noted that both scenarios are somewhat conservative and likely overstate the number of potential new students generated by the development for the following reasons:

- Snowden Woods will be marketed to young professionals, singles, and retirees seeking to downsize. These groups tend to have fewer children than the general population.
- One- and two-bedroom units in luxury apartment buildings typically attract fewer families than other housing types (such as single family homes, townhomes, and garden apartments) and therefore generate fewer school-aged children than other housing types. In many cases, one-bedroom units are not included in SAC generation estimates. This analysis applies a relatively conservative approach by including one-bedroom units.
- Rent ranges are relatively high given the median income in Westchester County. Higher rents are correlated with lower student generation rates.
- These SAC rates do not account for families that may relocate to Snowden Woods from elsewhere within the same school district, thus not resulting in net new students.

Marginal Cost of New Students

Some school costs will not change unless there is a significant increase or decrease in the number of students. These "fixed" costs include debt service, transportation, administration, and operations/maintenance of buildings.

Other costs, however, may be more directly impacted by the addition of new students. These costs are usually classified as "instructional" and include enrichment programs, health and counseling, special education, and text books. Teacher salaries are included in the instructional category, though they are less likely to be affected, as additional teaching staff typically would not be required unless there were a significant number of new students added to one school (depending on current capacity).

This analysis estimates the marginal cost of new students by using the proportion of the school budget allocated for instruction, which includes teacher salaries. For purposes of this analysis, teacher benefits are also included in in the proportion of budget allocated to the marginal cost of new students.

Table 4 illustrates the Ossining Union Free School District's 2015-2016 budget allocation for different types of school district expenditures. Approximately 75 percent of the school budget is allocated to expenditures classified as "instructional" and "employee benefits," with the remaining allocated to fixed costs, such as operations, maintenance, transportation, administration, and debt service.

Budget Category	Percent of total
Instructional	51.3%
0&M	5.3%
Employee Benefits	23.2%
Central Services	3.5%
Deb Service & Interfund	6.4%
Administration	3.3%
Transportation	5.8%
Non-Public	1.5%
Total	100%

Table 4 Ossining Union Free School District Budget Categories

Source: Ossining Union Free School District, 2015-2016 Budget

The total 2015-2016 school budget was \$117,213,394, of which \$20,873,065 is attributed to non-property tax revenues (including state aid). This leaves \$96,340,329 to be raised by the local tax levy. The Town of Ossining's share of the school tax levy is \$84,529,406 (approximately 88% of the total). When divided by the number of students enrolled, this equals an average cost of \$17,125 per student. After accounting for the 75 percent proportion of costs attributed to instruction and teacher benefits, **the marginal annual cost per student is \$12,844.**

Total Costs

The total educational cost is calculated by multiplying the marginal cost per student (\$12,844) by the number of new students generated (32). The total annual education cost of new students generated by the Snowden Woods

Apartment Complex would range from \$285,983 to \$408,496. This calculation is summarized in Table 5.

Table 5 Total Estimated Annual Education Costs (low and myn)
--

	Arr	ount
Total School Budget (2015-2016)		\$117,213,394
Non property tax revenues (including State Aid)		\$20,873,065
Amount to be raised by Tax Levy	o be raised by Tax Levy \$96,34	
Town of Ossining Dollar share of School Tax Levy		\$84,529,406
Total Students Enrolled		4,936
Instructional & Benefits Portion of Budget		75%
Average Cost per Student	\$17,	
Marginal Cost Per Student (average cost x 75% instructional costs)		\$12,762
	Low	High
Potential New Students Generated	22	32
Estimated Total Cost (marginal cost per student X new students generated)	\$285,983	\$408,496

Source: 2016-2017 Proposed Budget Ossining Union Free School District Note: Town of Ossining's share of the school tax levy is approximately 88 percent. The Towns of New Castle and Yorktown make up the remainder of the tax levy.

1.7 Estimated Revenues

Revenues generated for the Ossining Union Free School District by the Snowden Woods Project will come from real property tax revenues, as there are no other ongoing or one-time fees generated for the school district (such as school impact fees).

There are two steps necessary to calculate real property tax revenues generated by the Snowden Woods Apartment Complex project: (1) estimate the assessment value of the project and (2) apply the school tax rate to the assessment value. All revenues are estimated at project stabilization. The results are illustrated in Table 6 and further explained below:

Assessment value

Because the site is vacant and the project has not been constructed, it is necessary to estimate the future assessment value for the apartment complex as if it were built and leased today (i.e. at stabilization). The Town of Ossining Assessor uses the "income approach" to determine the assessment value of commercial apartment buildings⁵. The income approach examines how much income a property will produce at stabilization, taking into account vacancy rates, credit losses, and operating expenses (with the exception of property taxes).

The income generated less expenses is referred to as the net operating income (NOI)⁶. The income generated by the Snowden Woods Apartment Complex project is based on an estimated rental rate of \$3.00 per square foot for market rate units and \$1.50 to \$2.00 for affordable units. The estimated rents for affordable units accounts for the Village of Ossining's

⁵ Phone conversation with Fernando Gonzalez, IAO, Town Assessor, on October 28, 2016.
6 NOI does not include debt service or depreciation.

Affordable Housing Law, under which 15 percent of units must be offered at rent levels that will not exceed 30% of annual income for families earning 80 percent of Westchester County's Median Family Income (MFI).

The total value of the project is calculated by dividing the Net Operating Income by the capitalization rate of 11 percent⁷.

School tax rate

The Ossining Union Free School District tax rate is \$25.13 per \$1,000 of assessed value⁸. The equalization rate in the Town of Ossining is 100 percent, meaning that the school tax rate is applied to the full market value of the property. Apartments are not eligible for exemptions (such as STAR).

Total revenues

The total school property tax revenues generated by the project are calculated by multiplying the assessed value of the proposed project (\$38,372,324 by the school tax rate (\$25.13 per \$1,000). This calculation yields \$964,297 in annual school tax revenue generated by the Snowden Woods Apartment Complex project (Table 6).

Table 6 Assessed Value and School Tax Revenues

Net Operating Income (NOI)	
Annual NOI (monthly NOI x 12)	\$4,220,956
Assessed Value (AV)	
Capitalization Rate	11%
Value (NOI ÷ cap rate)	\$38,372,324
Equalization Rate	100%
Assessed Value (value x equalization rate)	\$38,372,324

Public Revenues	
School Tax Rate (Per \$1,000 AV)	\$25.13
Annual School Tax Revenue (tax rate x AV)	\$964,297

Source: Bergmann Associates, 2016

Notes: Vacancy and credit losses estimated based on regional averages. Capitalization rate provided by the Town of Ossining Assessor for October 2016.

⁷ The Town of Ossining applies a capitalization rate between 10 and 11 percent.

⁸ Town of Ossining consolidated tax rates, 2015. Village of Ossining and Ossining Schools.

SUMMARY OF FISCAL IMPACT

The results of the fiscal impact analysis are summarized in Table 7. The Snowden Woods Apartment Complex would cost the school district \$408,496, while generating \$964,297 per year in school tax revenues. This is a ratio of 3:1, meaning the Snowden Woods Apartment Complex would generate \$3.00 in tax revenue for every dollar spent educating new students. **The net fiscal impact (benefit) to the school district is \$555,800.**

Table 7 Fiscal Impact Summary

Fiscal Summary		
Total New Students	22	32
Total Annual Revenues	\$964,297	\$964,297
Total Annual Costs	\$285,983	\$408,496
Net Annual Fiscal Impact	\$678,313	\$555,800

APPENDIX A: DEFINITIONS:

Capitalization Rate: A measure of the ratio between the net operating income produced by an asset and its capital cost (the original price paid to buy the asset) or alternatively its current market value. The capitalization rate is equal to the net operating income divided by the current market value.

Equalization Rate: Assessed value of the real property in a town as determined by the local assessor divided by the state's appraised value of that same real property. This ratio is stated as a percentage. At an equalization rate of 100 percent, assessments are at full market value.

Net Operating Income (NOI): Gross operating income less operating expenses. NOI does not include debt service or depreciation.

Stabilization: The long-term average occupancy rate that an incomeproducing property is expected to achieve after exposure for leasing in the open market for a reasonable period of time at terms and conditions comparable to competitive offerings.

Vacancy and Credit Losses: Income lost due to tenants vacating the property and/or tenants defaulting (not paying) their lease payments.



SNOWDEN WOODS TRAFFIC IMPACT STUDY



VILLAGE OF OSSINING Northwest of Snowden Avenue / West of Highland Avenue (U.S. Route 9) / January 2017

10B Madison Avenue Extension // Albany, NY 12203-7314 // tel: 518.862.0325

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I. Purpose and Scope

The subject of this Traffic Impact Study (TIS) is the proposed residential development located northwest of Snowden Avenue and west of Highland Avenue (U.S. Route 9) in the Village of Ossining. The site plan is shown in Appendix A and completion of the project is targeted for 2019. The development will consist of 198 apartments, a 7,600 square foot (SF) Community Center and a 10,100 SF Fire Station. The proposed site access is comprised of one full access unsignalized driveway to Snowden Avenue with one enter lane and one exit lane.

A regional project location map is shown in Figure 1. See Figure 2 for the site location. The purpose of the TIS is to document the existing traffic conditions of the study area and to evaluate the estimated future traffic conditions and impacts as a result of the development.



Figure 1 - Regional Location Map



Figure 2 - Site Location Map





The following systematic procedure was used:

- 1. Review to obtain roadway and intersection geometry.
- 2. Manual turning movement counts at the following two (2) intersections were conducted:
 - Snowden Avenue at Highland Avenue (U.S. Route 9)
 - Snowden Avenue at the existing Fire Station

The intersections are shown in Figure 2 signified with black dots.

- 3. Determine the existing weekday AM and PM peak hour turning movements at the intersections.
- 4. Define the trips generated by the proposed development.
- 5. Distribute the new trips through the study area.
- 6. Estimate projected 2019 traffic at the intersections.
- 7. Evaluate traffic operations at the subject intersections under:
 - Existing conditions
 - Future (2019) No-Build conditions
 - Future (2019) Full Build conditions (with the residential development traffic)

The analyses and evaluations in this report have been performed using standard traffic engineering methodologies in accordance with the 9th edition ITE Trip Generation Manual. Data used in this impact assessment has been collected from field investigations, field visits (including vehicular traffic counts), developer plans, and the New York State Department of Transportation (NYSDOT).

II. Existing Roadway System

Highland Avenue (U.S. Route 9)

Highland Avenue is classified as an urban principal arterial. The Annual Average Daily Traffic (AADT) on Highland Avenue between Route 133 and Route 9A is approximately 18,500 vehicles per day (vpd) according to the NYSDOT Traffic Data Report for New York State (2015 AADT).

Highland Avenue is a four-lane roadway that provides normal two-way traffic flow with two through lanes in each direction at Snowden Avenue. Approximately 200 feet north of Snowden Avenue, the roadway transitions to a two-lane roadway. Highland Avenue is generally straight and level with slight curvature in the vicinity of Snowden Avenue. The posted speed limit is 30 mph in the study area. The intersection of Highland Avenue and Snowden Avenue is controlled by a multi-phase semi-actuated traffic signal.

Snowden Avenue

Snowden Avenue is classified as an urban major collector with one lane in each direction. The alignment of Snowden Avenue is generally straight near the development site. The vertical profile of the roadway has a slight crest curve north of the site driveway and a slight sag curve south of the driveway. The speed limit on Snowden Avenue is 30 mph.

The Annual Average Daily Traffic (AADT) on Snowden Avenue is approximately 2,100 vehicles per day (vpd) according to the NYSDOT Traffic Data Report for New York State (2015 estimated AADT).

Stopping sight distances are adequate for vehicles approaching the development driveway on Snowden Avenue from both directions according to AASHTO recommendations. The available and AASHTO recommended Stopping Sight Distances (SSD's) are summarized below.

Intersection	Approach	Available SSD	AASHTO Recommended SSD for Speed Limit		
Snowden Avenue @ the development driveway	Northeastbound	>350 feet	197 feet		
(Speed Limit = 30 mph)	Southwestbound	>350 feet	197 feet		

Motorists stopped on the driveway exit will have adequate sight distance to view vehicles approaching from the north and south on Snowden Avenue according to AASHTO recommendations with prohibition of parking on the northwest side of Snowden Avenue for a distance of approximately 250 feet north of the development driveway. The following photograph shows parked cars impeding the view of motorist exiting the development driveway:





The available and the AASHTO recommended intersection sight distances (ISD) are summarized below. The intersection sight distance for vehicles exiting the driveway is greater than 400 feet to the right and approximately 335 feet to the left with the recommended parking prohibition.

Major Roadway	Approach	Available ISD to the Left	Available ISD to the Right	AASHTO Recommended for Speed Limit
Snowden Avenue (Speed Limit = 30 mph)	Driveway Exit	335 feet ¹	>400 feet	331 feet ²

¹ Prohibition of parking for a distance of 250 feet is required on the northwest side of Snowden Avenue to provide adequate intersection sight distance to the left for drivers exiting the development driveway according to AASHTO recommends.

² AASHTO recommended intersection sight distance for a stopped passenger car to turn left onto a twolane highway for the speed limit of 30 mph along the two-lane highway.

III. Existing Traffic Conditions

A. Existing Traffic Volumes

Bergmann Associates conducted manual turning movement counts on Tuesday, November 29, 2016 from 7:00 to 9:00 AM and from 2:00 to 6:00 PM at the intersection of Snowden Avenue with Highland Avenue (U.S. Route 9). Intersection counts were also conducted at the intersection of Snowden Avenue at the existing Fire Station to determine existing traffic operations and existing trip generation. Figure 2 depicts the location of the two intersections.

The traffic count time periods were chosen because the combined traffic of the adjacent roads and the land developments generally peak during these time periods. The traffic counts were recorded by 15-minute increments to enable identification of specific peak hours and traffic peaking characteristics within the peak hour. Detailed count data are contained in Appendix B. Figure 3 contains the existing peak hour traffic volumes at the subject intersections and Appendix C contains all the peak hour traffic diagrams including existing, no build and full build conditions.

B. Existing Levels of Service

Level of Service (LOS) analysis is a means of determining the ability of an intersection to accommodate traffic volumes. The analysis is based on intersection street geometry, traffic controls and traffic maneuvers. The analysis produces an indication of the Level of Service at which an intersection is functioning or is expected to function for future conditions.

The Level of Service procedures are provided in the Highway Capacity Manual (HCM) published by the Transportation Research Board, 2010. Version 8 of Synchro was utilized to



determine the LOS for the subject intersections. Synchro implements the methods of the HCM for signalized and unsignalized intersection analyses.

Level of Service is defined by letter characters that range from A to F, with A representing the best traffic operating conditions that have little or no delay and F characterizing the worst conditions that have significant delay. LOS A through D are usually considered acceptable and LOS E is usually considered representative of conditions where improvements are needed. LOS F operating conditions are typically unacceptable, and improvements are needed in the form of traffic control, geometric changes or a combination of both.



Figure 3 – Existing Peak Hour Turning Movements

Levels of service for signalized and unsignalized intersections are identified by the average control delay experienced by vehicles in seconds/vehicle. LOS for signalized intersections is determined for each traffic movement and the total intersection. The range of seconds of control delay defining level of service is different for signalized and unsignalized intersections, so the LOS results should not be compared to one another. Full definitions of levels of service for signalized and unsignalized intersections are included in Appendix D. Table 1 shows the range of delay defining LOS for signalized intersections. Table 2 shows the range of delay defining LOS for unsignalized intersections.



Table 1. Level of Service Ranges for Signalized Intersections

LOS	CONTROL DELAY PER VEHICLE (seconds)
A	Less than or equal to 10.0
В	Greater than 10.0 to no more than 20.0
С	Greater than 20.0 to no more than 35.0
D	Greater than 35.0 to no more than 55.0
E	Greater than 55.0 to no more than 80.0
F	Greater than 80.0

Table 2. Level of Service for Ranges Unsignalized Intersections

LOS	CONTROL DELAY PER VEHICLE (seconds)
А	Less than or equal to 10.0
В	Greater than 10.0 to no more than 15.0
С	Greater than 15.0 to no more than 25.0
D	Greater than 25.0 to no more than 35.0
Е	Greater than 35.0 to no more than 50.0
F	Greater than 50.0

Existing Traffic Operations

The existing traffic operations during the peak hours at the subject intersections range from LOS A to E for all traffic movements according to Synchro. Level of service analysis results for the intersections are provided in Table 3 and described below. Detailed Synchro level of service analysis results are contained in Appendix D.



TABLE 3EXISTING SYNCHRO LEVEL OF SERVICE RESULTS

Intersection	Approach			Existing Conditions			
				Weekd	lay AM Peak	Weekd	lay PM Peak
				LOS	Control Delay (seconds/ vehicle)	LOS	Control Delay (seconds/ vehicle)
Snowden Avenue at	Crowdon Avo	Eastbound	LR	Е	55.1	Е	56.1
Highland Avenue	Showden Ave.	Eastbound	Approach	Е	55.1	Е	56.1
(U.S. Route 9)	U.S. Route 9	Northbound	LT T	В	12.7	В	13.9
		Northbound	Approach	В	12.7	В	13.9
Signalized		Southbound	T TR	А	5.2	А	4.3
	U.S. Route 9	Southbound	Approach	А	5.2	А	4.3
		Overall		В	12.0	В	14.6
Snowden Avenue at	Chaudan Ava	Eastbound	LT	А	0.0	А	9.4
existing Fire Station	Snowden Ave.	Eastbound	Approach	А	0.0	А	9.4
driveway	Chaudan Ava	Westbound	TR	А	0.0	Α	0.1
	Snowaen Ave.	Westbound	Approach	А	0.0	А	0.1
Unsignalized	Driveway	Southbound	LR	А	0.0	А	0.0
		Southbound	Approach	А	0.0	А	0.0
	Overall			А	0.0	А	0.2

LR: Shared Left and Right TR: Shared Through and Right

LT: Shared Left and Through LTR: Shared Left, Through, and Right

The signalized intersection of Snowden Avenue at Highland Avenue (U.S. Route 9) operates overall at LOS B during the Weekday AM and PM peak hours. The Highland Avenue approaches operate at LOS A and B. The Snowden Avenue approach operates at LOS E during the peak hours.

The **unsignalized intersection of Snowden Avenue at the existing Fire Station driveway** operates overall at LOS A during the Weekday AM and PM peak hours. The Snowden Avenue approaches operate at LOS A and the existing Fire Station driveway operates at LOS A.

IV. 2019 No Build Traffic Evaluation

A. 2019 No-Build Traffic

To project the No-Build peak hour traffic volumes (background traffic), the existing peak hour volumes were increased by 1% per year to account for new growth and development based on a review of the historic traffic volume trends in the area. Trends show a decrease on Snowden



Avenue and an annual growth rate of approximately 1% on Route 9 since 2006. The projected 2019 No-Build traffic at the intersections is shown in Appendix C, Figure C2.

B. 2019 No-Build Levels of Service

The No-Build condition takes into account background growth in traffic (1.0% annually based on historic traffic volume trends to account for the rate of area development). The 2019 No Build traffic operations at the subject intersections are similar to existing operations and are projected to continue to range from LOS A to E for all traffic movements according to Synchro. Level of service analysis results for the intersections are provided in Table 4 and described below. Detailed No Build Synchro level of service analysis results are contained in Appendix E.

Intersection	tersection Approach		No Build Conditions				
				Weekday AM Peak		Weekday PM Peak	
				LOS	Control Delay (seconds/ vehicle)	LOS	Control Delay (seconds/ vehicle)
Snowden Avenue at	Chaudan Ava	Eastbound	LR	Е	55.6	Е	56.6
Highland Avenue	Snowden Ave.	Eastbound	Approach	Е	55.6	Е	56.6
(U.S. Route 9)	U.S. Route 9	Northbound	LT T	В	12.9	В	14.1
		Northbound	Approach	В	12.9	В	14.1
Signalized	U.S. Route 9	Southbound	T TR	Α	5.4	Α	4.4
		Southbound	Approach	А	5.4	А	4.4
		Overall		В	12.3	В	14.9
Snowden Avenue at	Chaudan Ava	Eastbound	LT	А	0.0	А	0.1
existing Fire Station	Snowden Ave.	Eastbound	Approach	А	0.0	А	0.1
driveway	Chaudan Ava	Westbound	TR	А	0.0	А	0.0
	Snowden Ave.	Westbound	Approach	А	0.0	А	0.0
Unsignalized	Driveway	Southbound	LR	А	0.0	А	9.5
		Southbound	Approach	А	0.0	А	9.5
		Overall		А	0.0	А	0.2

TABLE 4NO BUILD SYNCHRO LEVEL OF SERVICE RESULTS

LR: Shared Left and Right TR: Shared Through and Right

LT: Shared Left and Through LTR: Shared Left, Through, and Right

The **signalized intersection of Snowden Avenue at Highland Avenue (U.S. Route 9)** is expected to continue to operate overall at LOS B during the Weekday AM and PM peak hours in 2019 without the development (under No Build conditions). The Highland Avenue approaches are expected to continue to operate at LOS A and B. The Snowden Avenue approach is expected to continue to operate at LOS E during the peak hours.


The **unsignalized intersection of Snowden Avenue at the existing Fire Station driveway** is expected to continue to operate overall at LOS A during the Weekday AM and PM peak hours in 2019 under No Build conditions. The Snowden Avenue approaches and the Fire Station driveway are projected to continue to operate at LOS A.

V. 2019 Build Traffic Evaluation

A. Trip Generation

The 9th edition of the Institute of Transportation Engineers (ITE) Trip Generation Manual (latest edition - 2012) was used to determine the trip estimate for the proposed development. The new development will consist of 198 apartments, a 7,600 square foot (SF) Community Center and a 10,100 SF Fire Station. The total number of trips entering and exiting is estimated to be 127 and 168 during the Weekday AM and PM peak hours respectively. A summary of trip generation for the site is shown in Table 5.

Weekda	ay AM peak hour						
LU Code	Description	Rate/KSF	Size	Trips	% In	In	Out
220	Apartment	equation	198 Units	101	20	20	81
495	Community Center	2.05	7.6 Ksf	16	66	11	5
	Fire Station	1.00	10.1 Ksf	10	50	5	5
	Totals	5		127		36	91
Weekda	ay PM peak hour						
LU Code	Description	Rate/KSF	Size	Trips	% In	In	Out
220	Apartment	equation	198 Units	127	65	83	44
495	Community Center	2.74	7.6 Ksf	21	49	10	11
	Fire Station	2.00	10.1 Ksf	20	50	10	10
	Totals	;		168		103	65

TABLE 5 TRIP GENERATION

B. Trip Distribution

This phase of the traffic analysis involves distribution of the projected peak hour traffic generated by the proposed development onto the surrounding roadway system. The projected traffic volume calculated during the trip generation phase are distributed onto the roadway system based on populations in the area of draw and existing and expected traffic patterns.

The percent distribution of the development generated traffic is shown in Appendix C Figure C3. The percentage of new traffic traveling on Snowden Avenue southwest of the new development is 10% and northeast of the development is 90%. To the south 40% is expected on Highland Avenue (U.S. Route 9) and 50% is estimated to the north on Highland Avenue. Figure C4 shows the assignment of the vehicle trips for the subject residential development based on the distribution percentages.

C. 2019 Full Build Traffic

The total projected build traffic volumes (Figure C5 – 2019 Full Build Peak Hour Turning Movements) are the sum of 2019 No Build traffic (2016 Existing Peak Hour Turning Movements plus 1% per year) and the estimated development traffic shown in Figure C4. The sum of Figures C2 and C4 represents the total "Build" traffic after the proposed development is complete and fully occupied.

D. 2019 Full Build Levels of Service

The Full Build condition takes into account estimated no build traffic and the additional traffic (trips) generated by the proposed development. The total number of trips entering and exiting is estimated to be 127 and 168 during the Weekday AM and PM peak hours respectively.

The 2019 Full Build traffic operations during the peak hours at the intersections are projected to range from LOS A to E for all traffic movements according to Synchro. Minor changes to LOS and delay are expected with the development action as compared to No Build conditions. Full Build level of service analysis results for the intersections are provided in Table 6 and described below. No Build LOS is also included in Table 6 for comparative use. Detailed Full Build Synchro level of service results are contained in Appendix F.

The **signalized intersection of Snowden Avenue at Highland Avenue (U.S. Route 9)** is expected to continue to operate overall at LOS B during the Weekday AM and PM peak hours in 2019 with the inclusion of development traffic (under Full Build conditions). The increase to overall intersection control delay will be 4.4 seconds during the AM peak hour and 3.3 seconds during the PM peak hour based on the analysis. The Highland Avenue approaches are expected to continue to operate at LOS A and B, and the Snowden Avenue approach is expected to continue to operate at LOS E during the peak hours.

The **unsignalized intersection of Snowden Avenue at the project driveway** is expected to continue to operate overall at LOS A during the Weekday AM and PM peak hours in 2019 under Full Build conditions with an increase to overall intersection control delay of 2.5 seconds for the AM peak hour and 1.6 seconds during the PM peak. The Snowden Avenue approaches operate at LOS B and the Fire Station driveway are projected to continue to operate at LOS A.



TABLE 62019 FULL BUILD LEVEL OF SERVICE

Intersection		Approach			No Build (Condit	ions		Full Build	Condi	tions
				Weeko	lay AM Peak	Weeko	day PM Peak	Weeko	lay AM Peak	Weeko	lay PM Peak
				LOS	Control Delay (seconds/ vehicle)	LOS	Control Delay (seconds/ vehicle)	LOS	Control Delay (seconds/ vehicle)	LOS	Control Delay (seconds/ vehicle)
Snowden Avenue at	Snowdon	Eastbound	LR	E	55.6	Е	56.6	Е	67.4	Е	64.4
Highland Avenue	Showden	Eastbound	Approach	E	55.6	Е	56.6	Е	67.4	Е	64.4
(U.S. Route 9)	Deute 0	Northbound	LT T	В	12.9	В	14.1	В	14.5	В	16.3
	Roule 9	Northbound	Approach	В	12.9	В	14.1	В	14.5	В	16.3
Signalized	Davita 0	Southbound	T TR	А	5.4	Α	4.4	Α	6.4	Α	4.9
	Route 9	Southbound	Approach	А	5.4	А	4.4	Α	6.4	Α	4.9
		Overall		В	12.3	В	14.9	В	16.7	В	18.2
Snowden Avenue at	Crewden	Eastbound	LT	А	0.0	Α	0.1	Α	0.2	Α	0.3
the project driveway	Snowden	Eastbound	Approach	А	0.0	Α	0.1	Α	0.2	Α	0.3
	Creativelan	Westbound	TR	А	0.0	Α	0.0	Α	0.0	Α	0.0
Unsignalized	Snowaen	Westbound	Approach	А	0.0	А	0.0	Α	0.0	Α	0.0
	Driveryout	Southbound	LR	А	0.0	Α	9.5	В	12.9	В	12.2
	Driveway	Southbound	Approach	А	0.0	Α	9.5	В	12.9	В	12.2
		Overall		А	0.0	А	0.2	А	2.5	Α	1.8

LR: Shared Left and Right TR: Shared Through and Right

LT: Shared Left and Through LTR: Shared Left, Through, and Right

The impacts to delay shown in Table 6 are all less than a whole letter grade of degradation and improvement can be achieved at the Route 9 intersection with signal retiming as shown in Table 7. The impacts can be balanced better by roadway and roadway function by taking 5 seconds of the traffic signal green time from Route 9 and giving this time to Snowden Avenue during the AM peak hour. The same retiming is recommended for the PM peak, yet with taking 6 seconds from Route 9 and adding 6 seconds to the Snowden Avenue signal phase. Table 7 with the recommended signal retiming demonstrates the rebalancing of delays that can be expected with retiming the signal splits in the future as the development is built out and fully occupied.

The <u>2019 Build with signal retiming</u> traffic operations during peak hours are projected to range from LOS A to D for all traffic movements according to Synchro. Minor changes to LOS and delay are expected with the development action as compared to No Build conditions with the proposed signal retiming. Build with signal retiming level of service analysis results for the intersections are provided in Table 7. Detailed Build Synchro level of service results are contained in Appendix G.



TABLE 7FULL BUILD WITH SIGNAL RETIMING LEVEL OF SERVICE

Intersection		Approach			Full Build	Condi	tions		Full Build (With Signa	Condi al Reti	tions ming
				Weeko	lay AM Peak	Weeko	lay PM Peak	Weeko	lay AM Peak	Weeko	lay PM Peak
				LOS	Control Delay (seconds/ vehicle)	LOS	Control Delay (seconds/ vehicle)	LOS	Control Delay (seconds/ vehicle)	LOS	Control Delay (seconds/ vehicle)
Snowden Avenue at	On avvalue	Eastbound	LR	Е	67.4	E	64.4	D	53.7	D	54.0
Highland Avenue	Snowden	Eastbound	Approach	Е	67.4	Е	64.4	D	53.7	D	54.0
(U.S. Route 9)	Doute 0	Northbound	LT T	В	14.5	В	16.3	В	16.4	В	18.0
	Roule 9	Northbound	Approach	В	14.5	В	16.3	В	16.4	В	18.0
Signalized	Bouto 0	Southbound	T TR	А	6.4	А	4.9	A	7.6	A	5.7
	Roule 9	Southbound	Approach	А	6.4	А	4.9	A	7.6	A	5.7
		Overall		В	16.7	В	18.2	В	16.1	В	17.8

LR: Shared Left and Right TR: Shared Through and Right

LT: Shared Left and Through LTR: Shared Left, Through, and Right

VI. Summary and Conclusions

The subject of this Traffic Impact Study is the proposed new residential development located northwest of Snowden Avenue and west of Highland Avenue (U.S. Route 9) in the Village of Ossining. Completion of the project is targeted for 2019. The new development will consist of 198 apartments, a 7,600 square foot (SF) Community Center and a 10,100 SF Fire Station. The proposed site access is comprised of one full access unsignalized driveway to Snowden Avenue with one enter lane and one exit lane.

A. Existing Conditions

The existing traffic operations during the peak hours at the subject intersections range from LOS A to E for all traffic movements according to Synchro.

The **signalized intersection of Snowden Avenue at Highland Avenue (U.S. Route 9)** operates overall at LOS B during the Weekday AM and PM peak hours. The Highland Avenue approaches operate at LOS A and B. The Snowden Avenue approach operates at LOS E during the peak hours.

The **unsignalized intersection of Snowden Avenue at the existing Fire Station driveway** operates overall at LOS A during the Weekday AM and PM peak hours. The Snowden Avenue approaches operate at LOS A and the existing Fire Station driveway operates at LOS A.

Stopping sight distances are adequate for vehicles approaching the development driveway on Snowden Avenue from both directions according to AASHTO recommendations. The available and AASHTO recommended Stopping Sight Distances (SSD's) are summarized below.

Intersection	Approach	Available SSD	AASHTO Recommended SSD for Speed Limit
Snowden Avenue @ the development driveway	Northeastbound	>350 feet	197 feet
(Speed Limit = 30 mph)	Southwestbound	>350 feet	197 feet

Motorists stopped on the driveway exit will have adequate sight distance (intersection sight distance) to view vehicles approaching from the north and south on Snowden Avenue according to AASHTO recommendations with prohibition of parking on the northwest side of Snowden Avenue for a distance of approximately 250 feet north of the development driveway. The AASHTO recommended intersection sight distance is 331 feet and the available intersection sight distance for vehicles exiting the driveway is greater than 400 feet to the right and approximately 335 feet to the left with the recommended parking prohibition.

B. 2019 No Build Conditions

To project the No-Build peak hour traffic volumes (background traffic), the existing peak hour volumes were increased by 1% per year to account for new growth and development based on a review of the historic traffic volume trends in the area. Trends show a decrease on Snowden Avenue and an annual growth rate of approximately 1% on Route 9 since 2006. The 2019 No Build traffic operations at the subject intersections are similar to existing operations and are projected to continue to range from LOS A to E for all traffic movements according to Synchro.

C. 2019 Full Build Conditions

The Build condition takes into account estimated no build traffic and additional traffic generated by the proposed development. The 9th edition of the Institute of Transportation Engineers (ITE) Trip Generation Manual (latest edition - 2012) was used to determine the trip estimate for the proposed development. The new development will consist of 198 apartments, a 7,600 square foot (SF) Community Center and a 10,100 SF Fire Station. The total number of trips entering and exiting is estimated to be 127 and 168 during the Weekday AM and PM peak hours respectively.

Trip Distribution

The distribution of the projected peak hour traffic generated by the proposed development onto the surrounding roadway system is based on populations in the area of draw and existing and expected traffic patterns. The percentage of new traffic traveling on Snowden Avenue southwest of the new development is 10% and northeast of the development is 90%. On Highland Avenue (U.S. Route 9) to the south 40% is expected and 50% is estimated to the north on Highland Avenue.

Level of Service

The 2019 Full Build traffic operations during the peak hours at the intersections are projected to range from LOS A to E for all traffic movements according to Synchro. Minor changes to LOS and delay are expected with the development action as compared to No Build conditions.

The signalized intersection of Snowden Avenue at Highland Avenue (U.S. Route 9) is expected to continue to operate overall at LOS B during the Weekday AM and PM peak hours in 2019 with the inclusion of development traffic (under Full Build conditions). The increase to overall intersection control delay will be 4.4 seconds during the AM peak hour and 3.3 seconds during the PM peak hour based on the analysis. The Highland Avenue approaches are expected to continue to operate at LOS A and B, and the Snowden Avenue approach is expected to continue to operate at LOS E during the peak hours.

The **unsignalized intersection of Snowden Avenue at the existing Fire Station driveway** is expected to continue to operate overall at LOS A during the Weekday AM and PM peak hours in 2019 under Full Build conditions with an increase to overall intersection control delay of 2.5 seconds for the AM peak hour and 1.6 seconds during the PM peak. The Snowden Avenue approaches operate at LOS B and the Fire Station driveway are projected to continue to operate at LOS A.

Impacts to vehicle delays are less than a whole letter grade of degradation for all lanes and improvement can be achieved at the Route 9 intersection with signal retiming as shown in Table 7. The traffic operations can be balanced by roadway and by roadway function by taking 5 seconds of the traffic signal green time from Route 9 and giving this time to Snowden Avenue during the AM peak hour. The same retiming is recommended for the PM peak, yet with taking 6 seconds from Route 9 and adding 6 seconds to the Snowden Avenue signal phase. Table 7 with the recommended signal retiming demonstrates the rebalancing of delays that can be achieved with retiming the signal phase splits in the future as the development is built out and fully occupied.

VII. Recommendations

- No change to the proposed access driveway plan is recommended. The traffic capacity analysis shows traffic operations to be characterized by good LOS based on Synchro 8 results at the driveway.
- Prohibition of parking for a distance of 250 feet is recommended on the northwest side of Snowden Avenue to provide adequate intersection sight distance for drivers exiting the development driveway in order to meet AASHTO sight distance recommendations.
- Signal timing adjustments are recommended for the Snowden Avenue / U.S. Route 9 intersection. This is expected to improve traffic operations for both future no build and future build conditions due to the pre-existing LOS E on the Snowden Avenue approach to U.S. Route 9. Traffic impacts expected from the proposed development action are minor and can be balanced for the function of each roadway by retiming the traffic signal, as shown in Table 7.

Appendix A

Site Plan



	CONSERVATION DEVEL	LOPMENT DISTRICT / S	-125: ONE-FAMILY RESIDENCE	
	REQUIRED (CDD)	REQUIRED (S-125)	PROPOSED (CDD)	exist residential lot (S-
MINIMUM LOT AREA	2 ACRES	0.34 ACRES	13.86 ACRES (SEE NOTE 6)	0.54 ACRES (SEE NOTE 8
MAXIMUM BUILDING WIDTH FOR EACH STRUCTURE/OPEN AREA BUFFER FOR LOTS ABUTTING A RESIDENTIAL DISTRICT	SEE NOTE 1 25 FEET	125 FEET (SEE NOTE 7) N/A	452 FEET / 70% 25 FEET MIN	69 FEET N/A
LDING, PARKING AND LOADING SETBACK				
MINIMUM FRONT YARD MINIMUM SIDE YARD (ONE)	30 FEET 30 FEET	45 FEET 30 FEET	BLDG: 105 FEETPARKING: 27 FEETBLDG: 30 FEETPARKING: 17 FEET	51 FEET 29 FEET*
MINIMUM SIDE YARD (BOTH)	N/A	60 FEET		74 FEET
MINIMUM DISTANCE BETWEEN ANY TWO BUILDINGS	35 FEET	N/A	102 FEET	N/A
MINIMUM LIVABLE FLOOR AREA PER DWELLING UNIT	N/A	0.02 ACRES	N/A	> 0.02 ACRES
DENSITY	SEE NOTE 2	N/A	14.6 UNITS/ACRE	N/A
BEDROOM MIX GHTS	SEE NOTE 3	N/A	49% 1 BDR; 49% 2 BDR; 2% 3 BDR	N/A
MAXIMUM BUILDING HEIGHT, WHICHEVER IS LESS	4.0 STORIES/ 48 FEET	2.5 STORIES/ 35 FEET	5.0 STORIES/ 58± FEET	< 2.5 STORIES/ 35 FEE
MAXIMUM IMPERVIOUS COVERAGE	50%	30%	38%	28%
MAXIMUM BUILDING COVERAGE	30%	20%	10%	7.4%
MINIMUM OPEN SPACE	25% (OF LOT AREA)	N/A	62%	N/A
NOTE: 1. THE TOTAL CUMULATIVE WIDTH OF BUILDINGS, STRUCTUR AND WALLS MORE THAN 36 INCHES IN HEIGHT SHALL N THAN 50% OF THE WIDTH OF A PARCEL AS MEASURED SUBSTANTIALLY PARALLEL TO THE HUDSON RIVER, AND T BUILDING WIDTH FOR EACH STRUCTURE OF BUILDING SH THAN 75 FEET MEASURED ALONG A LINE SUBSTANTALLY HUDSON RIVER. REFERENCE 270-19 FOR ADDITIONAL RE 2. BASELINE DENSITY: 6 UNITS PER ACRE UP TO 8 DWELL PURSUANT TO 270-19. WETLAND SHALL BE DEDUCTED 0 AREA WHEN DETERMINING DENSITY. DENSITY BONUS INCE OBTAINED PER 270-19. H. 3. BEDROOM MIX REQUIREMENTS: 10% OF TOTAL UNITS FOR UNITS OR STUDIOS, 20% OF TOTAL UNITS FOR TWO-BEL 10% OF TOTAL UNITS FOR THREE-BEDROOM UNITS. A W REQUIRED. 4. REFER TO 270-19. G FOR AFFORDABLE HOUSING REQUI MUST PROVIDE AFFORDABLE HOUSING PER CHAPTER 62. 5. SURVEY REFERENCE: SURVEY BASED ON A MAP ENTITLEI TITLE SURVEY", DATED JUNE 3, 2015, PREPARED BY BE 6. DOES NOT CONSIDER LAND CONVEYANCE BETWEEN OSSIN ASSOCIATES AND THE VILLAGE. 7. LOTS WITH A GREATER WIDTH THAN THE MINIMUM LOT W BOTH SIDE YARD SETBACKS EQUAL TO 40% OF THE LOT SIDE YARD EQUALING A MINIMUM OF 45% OF BOTH SIDE ACRES WITH THE LAND PROVIDED FOR EMERGENCY ACCE PROJECT DATA 1. APPLICANT: OSSINING RIVER ASSOCIATES, INC. 51 ROUTE 100 BURACLIFF MANOR, NEW YORK 14607 2. EXISTING ZONING: CDD: CONSERVATION DEVELOPMEN S-125: ONE-FAMILY RESIDENCE 3. LOT AREA: 13.86± ACRES (603,876 SF) OFFSTREET PARKING COD DISTRICT - RESIDENTIAL DWELLINGS UNITS 1.25 SPACES FOR N BEFRICIENCY OR STUDIO 1.5 SPACES FOR N BEFRICIENCY OR STUDIO 1.5 SPACES FOR N MEFRICIENCY OR STUDIO 1.5 SPACES FOR N MEFRICIENCY OR STUDIO 1.5 SPACES FOR N BEFRICIENCY O	ES, SOLID FENCES OT OCCUPY MORE ALONG A LINE HE MAXIMUM ALL NOT BE MORE PARALLEL TO THE COUREMENTS. NG UNITS PER ACRE FROM THE PARCEL INTIVES MAY BE REMENTS. APPLICANT O "ALTA/ACSM LAND RGMANN ASSOCIATES. UNG RIVER IDTH MUST HAVE WIDTH WITH EACH E YARD SETBACKS. OT SIZE IS 0.54 SS.	FND. REBAR N, 0.6'E 89.14–1=8 LANDS N/F JEFFREY G. SMITH	TRAIL/ACCESS ALONG SAND DRVI SS S-125 DISTRICT DD DISTRICT DD DISTRICT DS SS SS SS SS SS SS SS SS SS SS SS SS	89.14-1-7 LANDS N/F VILLAGE OF OSSINING SANDY DRIVE
348 TO 16 AC SURFACE PARKING 132 TO PARKING UNDER BUILDING 216 TO 348 TO 16 AC COD DISTRICT – COMMUNITY CENTER 1. 1 SPACE PER 4 SEATS. IF BENCHES OR PEWS ARE PR OF BENCH OR PEW SPACE SHALL BE EQUIVALENT TO 1 PROVIDED, 6 SQUARE FEET OF FLOOR AREA IN EACH A CLASSROOM SHALL BE EQUIVALENT TO 1 SEAT. CDD DISTRICT – FIRE STATION 1. THERE IS NO OFF-STREET PARKING REQUIREMENT INDIA DENSITY BONUS PROVISIONS (SECTION 270–19.H.): 1. DENSITY BONUS INCENTIVES MAY BE GRANTED BY THE PH DEVELOPMENTS IN THE CDD DISTRICT IN EXCHANGE FOR PROVIDING VARIOUS AMENITIES. THE APPLICANT PROPOSES AMENITES: (A) PROVISION OF PUBLICLY ACCESSIBLE RIVERWALK (B) PROVISION OF PUBLIC OPEN SPACE 2. THE PLANNING BOARD SHALL GRANT A DENSITY BONUS. TH AMENITY OFFERED, PROVIDED THAT THE PLANING BOARD AMENITY SPROPORTIONAL TO SUCH DENSITY BONUS. TH APPLICANT WOULD BE ELIGIBLE FOR A 20% DENSITY BONUS. 3. THE ALLOWED BASE DENSITY IS 6 UNITS PER ACRE. THE BONUS IS 1.2 UNITS PER ACRE, YIELDING A TOTAL ALLOW UNITS PER ACRE. THE PROPOSED DENSITY IS AS FOLLOW GROSS AREA = 13.86 ACRES WETLAND AREA = 0.32 ACRES WETLAND AREA = 0.32 ACRES DENSITY = 198/(13.86-0.32) = 14.6 UNIT	TAL SPACES REQUIRED CESSIBLE SPACES REQUIRED TAL SPACES PROVIDED TAL SPACES PROVIDED TAL SPACES PROVIDED CESSIBLE SPACES PROVIDED COVIDED, 24 LINEAR INCHES I SEAT. IF NO SEATS ARE SSEMBLY ROOM AND CATED IN ZONING CODE. LANNING BOARD FOR AN APPLICANT S THE FOLLOWING OF 10% FOR EACH FINDS THAT THE IEREFORE THE DENSITY WED DENSITY OF 7.2 /S: HUDS AP PARAL PR	SON RIVER IS PROXIMATELY LIEL TO THIS OPERTY LINE	5 STORY RESIDENTIAL 16,500± SF FOOTPRINT 66 UNITS (72 PARKING SPACES TWO LEVELS BELOW)	
 CODE DEVIATION REQUIRED: 1. FOR TOTAL CUMULATIVE WIDTH OF BUILDING/WALLS MEAS SUBSTANTIALLY PARALLEL TO THE HUDSON RIVER. 2. FOR CONSTRUCTION OF THE PROPOSED DRIVEWAY WITHIN CONSTRUCTION SETBACK FROM THE OLD CROTON AQUEDU 3. FOR DENSITY AS INDICATED IN THE DENSITY BONUS PROV 4. FOR BUILDING HEIGHT. ENVIRONMENTAL NOTES: PER THE OPRHP WEBSITE THE SITE IS LOCATED IN AN A SENSITIVE ZONE. THERE ARE TWO (2) HISTORIC SITES LO OR NEAR THE PROPERTY, AS FOLLOWS: OLD CROTON AQUEDUCT TRAIL (90NR02435) BRANDRETH PILL FACTORY (90NR02504) WEST OF PI PER NEW YORK STATE DEPARTMENT OF STATE, OFFICE OF DEVELOPMENT WEBSITE THE WHOLE PROJECT SITE IS WIT COASTAL BOUNDARY (I.E., COASTAL ZONE). FEDERAL REGULATED WETLANDS EXIST ON SITE. NO MAPPED STATE REGULATED WETLANDS OR STREAMS IN THE PROJECT SITE PER NYSDEC ENVIRONMENTAL RESOU THERE IS A BALD EAGLE'S NEST LOCATED ADJACENT TO LOCATION TO BE DETERMINED. 	URED ALONG A LINE THE 25 FEET JCT. VISIONS ABOVE. ARCHAEOLOGICAL DCATED ADJACENT TO ROJECT SITE OF PLANNING & THIN A LANDWARD WERE FOUND FOR RCE MAPPER. THE PROJECT SITE.	89.14-1-9 LANDS N/F ALLAGE OF OSSINING MHSA RIM=94.46 (NO ACCESS)		



WOODS SNOWDEN AVENUE OSSINING, NY **OSSINING RIVER ASSOCIATES, INC** 51 ROUTE 100 BRIARCLIFF MANOR NEW YORK 10510 Bergmann architects // engineers // planners 10B Madison Avenue Extension Albany, New York 12203

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 REVISIONS

 NO. DATE
 DESCRIPTION
 REV. CK'D

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Date	1" = 40 '
	OCTOBER 24, 2016 Scale:
	Date Issued:
	Checked by: G.URSPRUNG, PE
	Drawn by: S. HARRISON
	Designed by: S. HARRISON
	G. URSPRUNG, PE



Appendix B

Turning Movement Count Data

November 2016



Snowden Avenue @ Highland Avenue (U.S. Route 9)



Snowden Woods Traffic Impact Study N Highland Ave (Rte 9) at Snowden Avenue Tuesday, November 29, 2016 7:00 - 9:00 AM and 2:00 - 6:00 PM

File Name : N Highland Ave (Route 9) at Snowden Ave Site Code : 0000002 Start Date : 11/29/2016 Page No : 1

						Grou	ps Pri	nted-	Autos	and Pe	eds - T	Trucks	and F	RTOR	- Buses	s and	Bikes	5			1		
		Snow	/den A	Avenue	Э						NF	lighla	nd Ave	e (Roi	ute 9)	NF	lighla	nd Ave	e (Rou	ute 9)			
		E	astbou	und			W	estbo	und			No	orthbo	und			S	outhbo	und				
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Exclu. Total	Inclu. Total	Int. Total
07:00 AM	14	0	3	2	17	0	0	0	0	0	3	119	0	1	122	0	211	38	0	249	3	388	391
07:15 AM	24	0	4	0	28	0	0	0	0	0	3	121	0	0	124	0	242	41	1	283	1	435	436
07:30 AM	42	0	10	3	52	0	0	0	0	0	2	126	0	0	128	0	228	46	3	274	6	454	460
07:45 AM	39	0	11	1	50	0	0	0	0	0	3	145	0	0	148	0	214	23	0	237	1	435	436
Total	119	0	28	6	147	0	0	0	0	0	11	511	0	1	522	0	895	148	4	1043	11	1712	1723
08:00 AM	29	0	3	0	32	0	0	0	0	0	4	118	0	1	122	0	239	36	3	275	4	429	433
08:15 AM	20	0	3	2	23	0	0	0	0	0	9	89	0	0	98	0	214	20	0	234	2	355	357
08:30 AM	22	0	5	1	27	0	0	0	0	0	4	109	0	Ō	113	0	210	13	Ō	223	1	363	364
08:45 AM	20	0	5	2	25	0	0	0	0	0	1	143	0	0	144	0	209	27	3	236	5	405	410
Total	91	0	16	5	107	0	0	0	0	0	18	459	0	1	477	0	872	96	6	968	12	1552	1564
		-		-			-	•	-	•			-			•			-		=		
*** BREAK	***																						
02.00 PM	18	0	0	2	18	0	0	0	0	0	2	159	0	0	161	0	105	9	0	114	2	293	295
02:15 PM	17	õ	1	1	18	Ő	Ő	Ő	õ	Ő	0	129	Ő	1	129	õ	133	7	õ	140	2	287	289
02:30 PM	15	ő	1	2	16	Ö	Ő	0	Ő	0	2	171	0	0	173	Ő	139	10	1	140	3	338	341
02:45 PM	17	ő	3	7	20	ŏ	Ő	Ő	Ő	Ő	4	179	Ő	õ	183	Ő	147	14	2	161	9	364	373
Total	67	0	5	12	72	0	0	0	0	0	8	638	0	1	646	0	524	40	3	564	16	1282	1298
rotai	0.	Ŭ	Ŭ			, U	Ŭ	Ũ	Ŭ	0	Ŭ	000	Ũ		0101	Ŭ	021	10	Ŭ	001	1 10	1202	1200
03.00 PM	33	0	4	1	37	0	0	0	0	0	4	188	0	0	192	0	146	13	2	159	3	388	391
03.15 PM	20	0	2	0	31		0	0	0	0	5	177	0	ő	182	0	133	16	1	149	1	362	363
03.30 PM	40	0	5	0	15		0	0	0	0	0	171	0	0	180	0	13/	8	2	1/2	2	367	360
03:45 PM	32	0	7	2	30		0	0	0	0	2	154	0	0	156	0	130	13	1	1/13	2	338	3/1
<u> </u>	134	0	18	- 2	152	0	0		0	0	20	690	0		710	0	543	50	6	503	<u> </u>	1455	1464
Total	104	0	10	5	102		0	0	0	0	20	000	0	0	110	0	040	50	0	000		1400	1404
04:00 PM	36	0	5	4	41	0	0	0	0	0	2	182	0	0	184	0	157	12	3	169	7	394	401
04:15 PM	35	0	4	1	39	0	0	0	0	0	3	201	0	0	204	0	148	15	1	163	2	406	408
04:30 PM	48	0	5	0	53	0	0	0	0	0	3	176	0	0	179	0	156	12	1	168	1	400	401
04:45 PM	43	0	5	1	48	0	0	0	0	0	0	175	0	1	175	0	147	25	2	172	4	395	399
Total	162	0	19	6	181	0	0	0	0	0	8	734	0	1	742	0	608	64	7	672	14	1595	1609
05:00 PM	45	0	8	2	53	0	0	0	0	0	4	147	0	0	151	0	140	15	1	155	3	359	362
05:15 PM	41	0	1	7	42	0	0	0	0	0	2	194	0	3	196	0	165	20	1	185	11	423	434
05:30 PM	25	0	6	1	31	0	0	0	0	0	3	180	0	0	183	0	148	11	0	159	1	373	374
05:45 PM	38	0	4	0	42	0	0	0	0	0	1	178	0	0	179	0	152	14	0	166	0	387	387
Total	149	0	19	10	168	0	0	0	0	0	10	699	0	3	709	0	605	60	2	665	15	1542	1557
Grand Total	722	0	105	42	827	0	٥	0	0	0	75	2721	0	7	3806	0	4047	458	28	4505	77	0138	9215
Appreh %	97.2	0	10.0	72	021		0	0	0	0	10	00	0	'	5000	0	90.9	10.2	20	4000	''	5150	5215
Total %	70	0	1 1		0.1		0	0		Δ	08	40.9	0		117	0	11 2	5		10.3	0.8	00.2	
	7.3	0	20		916		0			0	<u> </u>	40.0	0	-	2617	0	2057	1/12		4200	0.0	0	0722
Autos and Peds	07 1	0	84.8	61.0	03.0		0	0	0	0	50 77 2	05 2	0	100	0/ 0	0	05 2	96.7	0			0	0/00
% Autos and Peds	15	0	11	01.9	<u>93.9</u> 12	0	0	0	0	0	 6	<u> </u>	0	100	120	0	107	10	0	1/5		0	<u>34.0</u> 207
Trucks and RTOR	21	0	10 F	20 1	42		0	0	0	0	o p	2 1	0	0	3 1	0	26	22	100	20		0	307
% Trucks and RTOR	2.1	0	5	50.1	11	0	0	0	0	0	11	65	0	0	76	0	2.0	<u>2.2</u> 5	100	<u></u>		0	175
Buses and Bikes	0	0	18	0	12		0	0	0	0	1/1 7	17	0	0	20	0	21	11	0	10		0	10
% Buses and Bikes	0.0	0	4.0	0	1.3	0	0	0	0	0	14.7	1.7	0	0	2	0	∠.∣	1.1	0	1.9	0	0	1.9

Snowden Woods Traffic Impact Study N Highland Ave (Rte 9) at Snowden Avenue Tuesday, November 29, 2016 7:00 - 9:00 AM and 2:00 - 6:00 PM File Name : N Highland Ave (Route 9) at Snowden Ave Site Code : 00000002 Start Date : 11/29/2016

Page No : 2



Snowden Woods Traffic Impact Study N Highland Ave (Rte 9) at Snowden Avenue Tuesday, November 29, 2016 7:00 - 9:00 AM and 2:00 - 6:00 PM File Name : N Highland Ave (Route 9) at Snowden Ave Site Code : 00000002 Start Date : 11/29/2016 Page No : 3

	5	Snowde	n Aven	ue					N Hi	ghland .	Ave (Ro	oute 9)	N Hi	ghland /	Ave (Ro	oute 9)	
		East	ound			West	bound			North	bound			South	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Anal	ysis Fror	n 07:00	AM to 1	1:45 AM -	Peak 1	of 1											
Peak Hour for E	ntire Inte	rsectior	Begins	at 07:15	AM												
07:15 AM	24	0	4	28	0	0	0	0	3	121	0	124	0	242	41	283	435
07:30 AM	42	0	10	52	0	0	0	0	2	126	0	128	0	228	46	274	454
07:45 AM	39	0	11	50	0	0	0	0	3	145	0	148	0	214	23	237	435
08:00 AM	29	0	3	32	0	0	0	0	4	118	0	122	0	239	36	275	429
Total Volume	134	0	28	162	0	0	0	0	12	510	0	522	0	923	146	1069	1753
% App. Total	82.7	0	17.3		0	0	0		2.3	97.7	0		0	86.3	13.7		
PHF	.798	.000	.636	.779	.000	.000	.000	.000	.750	.879	.000	.882	.000	.954	.793	.944	.965
Autos and Peds	127	0	22	149	0	0	0	0	11	469	0	480	0	879	143	1022	1651
% Autos and Peds	94.8	0	78.6	92.0	0	0	0	0	91.7	92.0	0	92.0	0	95.2	97.9	95.6	94.2
Trucks and RTOR	4	0	6	10	0	0	0	0	1	22	0	23	0	22	3	25	58
% Trucks and RTOR	3.0	0	21.4	6.2	0	0	0	0	8.3	4.3	0	4.4	0	2.4	2.1	2.3	3.3
Buses and Bikes	3	0	0	3	0	0	0	0	0	19	0	19	0	22	0	22	44
% Buses and Bikes	2.2	0	0	1.9	0	0	0	0	0	3.7	0	3.6	0	2.4	0	2.1	2.5



Snowden Woods Traffic Impact Study N Highland Ave (Rte 9) at Snowden Avenue Tuesday, November 29, 2016 7:00 - 9:00 AM and 2:00 - 6:00 PM File Name : N Highland Ave (Route 9) at Snowden Ave Site Code : 00000002 Start Date : 11/29/2016 Page No : 4

	5	Snowde	n Aven	ue					N Hi	ghland .	Ave (Ro	oute 9)	N Hi	ghland .	Ave (Ro	oute 9)	
		East	bound			West	bound			North	bound			South	nbound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Anal	ysis Fror	n 12:00	PM to ()5:45 PM ·	Peak 1	of 1	-				-				-		
Peak Hour for E	ntire Inte	ersection	n Begins	s at 04:00	PM												
04:00 PM	36	0	5	41	0	0	0	0	2	182	0	184	0	157	12	169	394
04:15 PM	35	0	4	39	0	0	0	0	3	201	0	204	0	148	15	163	406
04:30 PM	48	0	5	53	0	0	0	0	3	176	0	179	0	156	12	168	400
04:45 PM	43	0	5	48	0	0	0	0	0	175	0	175	0	147	25	172	395
Total Volume	162	0	19	181	0	0	0	0	8	734	0	742	0	608	64	672	1595
% App. Total	89.5	0	10.5		0	0	0		1.1	98.9	0		0	90.5	9.5		
PHF	.844	.000	.950	.854	.000	.000	.000	.000	.667	.913	.000	.909	.000	.968	.640	.977	.982
Autos and Peds	156	0	19	175	0	0	0	0	8	719	0	727	0	588	63	651	1553
% Autos and Peds	96.3	0	100	96.7	0	0	0	0	100	98.0	0	98.0	0	96.7	98.4	96.9	97.4
Trucks and RTOR	4	0	0	4	0	0	0	0	0	12	0	12	0	16	1	17	33
% Trucks and RTOR	2.5	0	0	2.2	0	0	0	0	0	1.6	0	1.6	0	2.6	1.6	2.5	2.1
Buses and Bikes	2	0	0	2	0	0	0	0	0	3	0	3	0	4	0	4	9
% Buses and Bikes	1.2	0	0	1.1	0	0	0	0	0	0.4	0	0.4	0	0.7	0	0.6	0.6



Snowden Avenue @ Existing Fire Station driveway



Snowden Woods Traffic Impact Study Snowden Avenue at Fire Station Driveway Wednesday, November 30, 2016 7:00 - 8:45 AM File Name : Snowden Ave at Fire Station Driveway_AM Site Code : 00000003 Start Date : 11/30/2016 Page No : 1

							Grou	ps Pri	nted-	Autos a	nd Pe	eds - T	rucks	- Bus	es and	Bikes							
		Snow	den A	venu	е		Snow	den A	Avenue	е						F	ire Sta	ation [Drivew	vay			
		Ea	stbou	und			W	estbo	und			No	orthbo	und			Sc	uthbo	und	-			
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Exclu. Total	Inclu. Total	Int. Total
07:00 AM	0	26	0	1	26	0	48	0	0	48	0	0	0	0	0	0	0	0	0	0	1	74	75
07:15 AM	0	44	0	0	44	0	43	0	0	43	0	0	0	0	0	0	0	0	0	0	0	87	87
07:30 AM	0	63	0	1	63	0	44	0	0	44	0	0	0	0	0	0	0	0	0	0	1	107	108
07:45 AM	0	52	0	0	52	0	33	0	0	33	0	0	0	0	0	0	0	0	0	0	0	85	85
Total	0	185	0	2	185	0	168	0	0	168	0	0	0	0	0	0	0	0	0	0	2	353	355
08:00 AM	0	25	0	0	25	0	41	0	0	41	0	0	0	0	0	0	0	0	0	0	0	66	66
08:15 AM	0	28	0	0	28	0	24	1	0	25	0	0	0	0	0	0	0	0	0	0	0	53	53
08:30 AM	1	29	0	1	30	0	19	1	0	20	0	0	0	0	0	0	0	0	0	0	1	50	51
Grand Total	1	267	0	3	268	0	252	2	0	254	0	0	0	0	0	0	0	0	0	0	3	522	525
Apprch %	0.4	99.6	0			0	99.2	0.8			0	0	0			0	0	0					
Total %	0.2	51.1	0		51.3	0	48.3	0.4		48.7	0	0	0		0	0	0	0		0	0.6	99.4	
Autos and Peds	1	245	0		249	0	231	2		233	0	0	0		0	0	0	0		0	0	0	482
% Autos and Peds	100	91.8	0	100	91.9	0	91.7	100	0	91.7	0	0	0	0	0	0	0	0	0	0	0	0	91.8
Trucks	0	14	0		14	0	12	0		12	0	0	0		0	0	0	0		0	0	0	26
% Trucks	0	5.2	0	0	5.2	0	4.8	0	0	4.7	0	0	0	0	0	0	0	0	0	0	0	0	5
Buses and Bikes	0	8	0		8	0	9	0		9	0	0	0		0	0	0	0		0	0	0	17
% Buses and Bikes	0	3	0	0	3	0	3.6	0	0	3.5	0	0	0	0	0	0	0	0	0	0	0	0	3.2



Snowden Woods Traffic Impact Study Snowden Avenue at Fire Station Driveway Wednesday, November 30, 2016 7:00 - 8:45 AM File Name : Snowden Ave at Fire Station Driveway_AM Site Code : 0000003 Start Date : 11/30/2016 Page No : 2

	5	Snowde	n Avenu	Je		Snowde	n Aven	ue					Fi	re Statio	on Drive	way	
		East	bound			West	bound			North	nbound			South	nbound	,	
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Anal	ysis Fror	n 07:00	AM to 0	8:30 AM	Peak 1	of 1											
Peak Hour for E	ntire Inte	ersectior	n Begins	at 07:00	AM												
07:00 AM	0	26	0	26	0	48	0	48	0	0	0	0	0	0	0	0	74
07:15 AM	0	44	0	44	0	43	0	43	0	0	0	0	0	0	0	0	87
07:30 AM	0	63	0	63	0	44	0	44	0	0	0	0	0	0	0	0	107
07:45 AM	0	52	0	52	0	33	0	33	0	0	0	0	0	0	0	0	85
Total Volume	0	185	0	185	0	168	0	168	0	0	0	0	0	0	0	0	353
% App. Total	0	100	0		0	100	0		0	0	0		0	0	0		
PHF	.000	.734	.000	.734	.000	.875	.000	.875	.000	.000	.000	.000	.000	.000	.000	.000	.825
Autos and Peds	0	174	0	174	0	159	0	159	0	0	0	0	0	0	0	0	333
% Autos and Peds	0	94.1	0	94.1	0	94.6	0	94.6	0	0	0	0	0	0	0	0	94.3
Trucks	0	6	0	6	0	6	0	6	0	0	0	0	0	0	0	0	12
% Trucks	0	3.2	0	3.2	0	3.6	0	3.6	0	0	0	0	0	0	0	0	3.4
Buses and Bikes	0	5	0	5	0	3	0	3	0	0	0	0	0	0	0	0	8
% Buses and Bikes	0	2.7	0	2.7	0	1.8	0	1.8	0	0	0	0	0	0	0	0	2.3



Snowden Woods Traffic Impact Study Snowden Avenue at Fire Station Driveway Monday, November 28, 2016 4:00 - 6:00 PM File Name : Snowden Ave at Fire Station Driveway_PM Site Code : 00000001 Start Date : 11/28/2016 Page No : 1

							Grou	<u>ps Pri</u>	nted- /	Autos a	nd Pe	eds - T	rucks	- Bus	es and	Bikes							
		Snow	vden A	venu	Э		Snov	vden A	Avenue	Э						F	ire St	ation [Drivew	/ay			
		<u> </u>	astbou	und			W	estbo	und			No	orthbo	und			Sc	outhbo	und	-			
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	0	40	0	1	40	0	18	0	0	18	0	0	0	0	0	0	0	0	0	0	1	58	59
04:15 PM	0	45	0	0	45	0	16	0	0	16	0	0	0	0	0	0	0	0	2	0	2	61	63
04:30 PM	0	51	0	0	51	0	14	0	0	14	0	0	0	0	0	0	0	0	0	0	0	65	65
04:45 PM	0	48	0	1	48	0	17	0	0	17	0	0	0	0	0	0	0	0	0	0	1	65	66
Total	0	184	0	2	184	0	65	0	0	65	0	0	0	0	0	0	0	0	2	0	4	249	253
05:00 PM	1	63	0	2	64	0	27	0	2	27	0	0	0	0	0	0	0	1	0	1	4	92	96
05:15 PM	0	53	0	0	53	0	14	0	0	14	0	0	0	0	0	0	0	0	0	0	0	67	67
05:30 PM	1	65	0	0	66	0	16	1	0	17	0	0	0	0	0	1	0	1	2	2	2	85	87
05:45 PM	1	45	0	0	46	0	19	0	0	19	0	0	0	0	0	0	0	0	1	0	1	65	66
Total	3	226	0	2	229	0	76	1	2	77	0	0	0	0	0	1	0	2	3	3	7	309	316
Grand Total	3	410	0	4	413	0	141	1	2	142	0	0	0	0	0	1	0	2	5	3	11	558	569
Apprch %	0.7	99.3	0			0	99.3	0.7			0	0	0			33.3	0	66.7					
Total %	0.5	73.5	0		74	0	25.3	0.2		25.4	0	0	0		0	0.2	0	0.4		0.5	1.9	98.1	
Autos and Peds	3	401	0		408	0	130	1		133	0	0	0		0	1	0	2		8	0	0	549
% Autos and Peds	100	97.8	0	100	97.8	0	92.2	100	100	92.4	0	0	0	0	0	100	0	100	100	100	0	0	96.5
Trucks	0	7	0		7	0	9	0		9	0	0	0		0	0	0	0		0	0	0	16
% Trucks	0	1.7	0	0	1.7	0	6.4	0	0	6.2	0	0	0	0	0	0	0	0	0	0	0	0	2.8
Buses and Bikes	0	2	0		2	0	2	0		2	0	0	0		0	0	0	0		0	0	0	4
% Buses and Bikes	0	0.5	0	0	0.5	0	1.4	0	0	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0.7



Snowden Woods Traffic Impact Study Snowden Avenue at Fire Station Driveway Monday, November 28, 2016 4:00 - 6:00 PM File Name : Snowden Ave at Fire Station Driveway_PM Site Code : 00000001 Start Date : 11/28/2016 Page No : 2

	5	Snowde	n Avenu	e		Snowden Avenue								Fire Station Driveway			
		East	bound			Westbound				North	bound			South	nbound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Anal	ysis Fror	n 04:00	PM to 0	5:45 PM ·	Peak 1	of 1	-				-				-		
Peak Hour for E	ntire Inte	ersectior	n Begins	at 04:45	PM												
04:45 PM	0	48	0	48	0	17	0	17	0	0	0	0	0	0	0	0	65
05:00 PM	1	63	0	64	0	27	0	27	0	0	0	0	0	0	1	1	92
05:15 PM	0	53	0	53	0	14	0	14	0	0	0	0	0	0	0	0	67
05:30 PM	1	65	0	66	0	16	1	17	0	0	0	0	1	0	1	2	85
Total Volume	2	229	0	231	0	74	1	75	0	0	0	0	1	0	2	3	309
% App. Total	0.9	99.1	0		0	98.7	1.3		0	0	0		33.3	0	66.7		
PHF	.500	.881	.000	.875	.000	.685	.250	.694	.000	.000	.000	.000	.250	.000	.500	.375	.840
Autos and Peds	2	225	0	227	0	70	1	71	0	0	0	0	1	0	2	3	301
% Autos and Peds	100	98.3	0	98.3	0	94.6	100	94.7	0	0	0	0	100	0	100	100	97.4
Trucks	0	3	0	3	0	4	0	4	0	0	0	0	0	0	0	0	7
% Trucks	0	1.3	0	1.3	0	5.4	0	5.3	0	0	0	0	0	0	0	0	2.3
Buses and Bikes	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
% Buses and Bikes	0	0.4	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0.3



Appendix C

Intersection Turning Movement Diagrams









Appendix D

Detailed Level of Service Analysis Results

2016 Existing Conditions



DEFINITION OF LEVEL OF SERVICE FOR

SIGNALIZED INTERSECTIONS

Level of service for signalized intersections is defined in terms of delay, which is a measure of driver discomfort, frustration, fuel consumption, and lost travel time. The delay experienced by a motorist is made up of a number of factors that relate to control, geometrics, traffic, and incidents. Total delay is the difference between the travel time actually experienced and the reference travel time that would result during ideal conditions: in the absence of traffic control, in the absence of geometric delay, in the absence of any incidents and when there are no other vehicles on the road. Only the portion of total delay attributed to the control facility is quantified. This delay is called *control delay*. Control delay includes initial deceleration delay, queue move-up time, stopped delay, and final acceleration delay.

Specifically, LOS criteria for traffic signals are stated in terms of the average control delay per vehicle, typically for a 15-minute analysis period. The criteria are given in the following table. Delay is a complex measure and is dependent on a number of variables, including the quality of progression, the cycle length, the green ratio, and the v/c ratio for the lane group in question.

LEVEL OF SERVICE	CONTROL DELAY PER VEHICLE (sec)				
А	Less than or equal to 10.0				
В	Greater than 10.0 to no more than 20.0				
С	Greater than 20.0 to no more than 35.0				
D	Greater than 35.0 to no more than 55.0				
Е	Greater than 55.0 to no more than 80.0				
F	Greater than 80.0				

Level of Service A describes operations with very low control delay, up to 10 seconds per vehicle. This level of service occurs when progression is extremely favorable and most vehicles arrive during the green phase. Most vehicles do not stop at all. Short cycle lengths may also contribute to low delay.

Level of Service B describes operations with control delay greater than 10 and up to 20 seconds per vehicle. This level generally occurs with good progression, short cycle lengths, or both. More vehicles stop than with LOS A, causing higher levels of average delay.

Level of Service C describes operations with control delay greater than 20 and up to 35 seconds per vehicle. These higher delays may result from fair progression, longer cycle lengths, or both. Individual cycle failures may begin to appear at this level. The number of vehicles stopping is significant at this level, though many still pass through the intersection without stopping.

Level of Service D describes operations with control delay greater than 35 and up to 55 seconds per vehicle. At level D, the influence of congestion becomes more noticeable. Longer delays may result from some combination of unfavorable progression, long cycle lengths, or high v/c ratios. Many vehicles stop, and the proportion of vehicles not stopping declines. Individual cycle failures are noticeable.



Level of Service E describes operations with control delay greater than 55 and up to 80 seconds per vehicle. This level is considered by many agencies to be the limit of acceptable delay. These high delay values generally indicate poor progression, long cycle lengths, and high v/c ratios. Individual cycle failures are frequent occurrences.

Level of Service F describes operations with control delay in excess of 80 seconds per vehicle. This level, considered to be unacceptable to most drivers, often occurs with oversaturation, that is, when arrival flow rates exceed the capacity of the intersection. It may also occur at high v/c ratios below 1.0 with many individual cycle failures. Poor progression and long cycle lengths may also be major contributing factors to such delay levels.



DEFINITION OF LEVEL OF SERVICE FOR

UNSIGNALIZED INTERSECTIONS

The level of service for a Two-Way-Stop-Control (TWSC) intersection is determined by the computed or measured control delay and is defined for each minor movement. Level of service is not defined for the intersection as a whole. LOS criteria are given in the accompanying table.

LEVEL OF SERVICE	CONTROL DELAY PER VEHICLE (sec)
A	Less than or equal to 10.0
В	Greater than 10.0 to no more than 15.0
С	Greater than 15.0 to no more than 25.0
D	Greater than 25.0 to no more than 35.0
E	Greater than 35.0 to no more than 50.0
F	Greater than 50.0

The LOS criteria for TWSC intersections are somewhat different than the criteria used for signalized intersections. The primary reason for this difference is that drivers expect different levels of performance from different kinds of transportation facilities. The expectation is that a signalized intersection would be designed to carry higher traffic volumes than an unsignalized intersection. In addition, a number of driver behavior considerations combine to make delays at signalized intersections less onerous than delays at unsignalized intersections. Also, there is often much more variability in the amount of delay experienced by individual drivers at an unsignalized intersection versus that at signalized intersections. For these reasons, it is considered that the control delay threshold for any given level of service would be less for an unsignalized intersection than it would be for a signalized intersection.

The delay experienced by a motorist is made up of a number of factors that relate to control, geometrics, traffic, and incidents. Total delay is the difference between the travel time actually experienced and the reference travel time that would result during conditions with ideal geometrics and in the absence of incidents, control and traffic. This delay is called *control delay*. Control delay includes initial deceleration delay, queue move-up time, stopped delay, and final acceleration delay.

In the performance evaluation of TWSC intersections, it is important to consider other measures of effectiveness (MOE's) in addition to delay, such as v/c ratios for <u>individual</u> movements, average queue lengths, and 95th percentile queue lengths. By focusing on a single MOE for the worst movement only, such as delay for the minor-street left turn, inappropriate traffic control decisions may be made.



Lanes, Volumes, Timings 1: Snowden Ave & N Highland Ave (Rte 9)

	*	†	Ŧ	_لر	•	4		
Lane Group	NBL	NBT	SBT	SBR	NEL	NER	ø1	
Lane Configurations		∆ ‡	#1		W.		,	
Volume (vnh)	12	510	923	146	134	28		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900		
Lane Width (ft)	1700	1700	11	1700	1700	13		
Lane Util Factor	0.95	0.95	0.95	0.95	1 00	1 00		
Ped Bike Factor	0.75	1.00	1.00	0.75	1.00	1.00		
Frt		1.00	0 979		0 977			
Flt Protected		0 000	0.777		0.960			
Satd Flow (prot)	0	3330	3253	0	1689	0		
Flt Permitted	0	0.924	5255	0	0.960	U		
Satd Flow (perm)	0	3088	3253	0	1689	0		
Right Turn on Red	0	5000	5255	Yes	1007	Yes		
Satd Flow (RTOR)			12	103	8	105		
Link Sneed (mnh)		30	30		30			
Link Distance (ft)		501	217		614			
Travel Time (s)		12 /	/ 0		1/ 6			
Confl Peds (#/br)	1	13.4	4.7	1	14.0	1		
Peak Hour Factor	0.07	0 07	0.07	0.07	0 07	0.07		
Hoavy Vohiclos (%)	0.77	Q%	5%	2%	6%	0.77		
Adi Flow (vpb)	770 10	526	052	151	120	2270		
Sharod Lano Traffic (%)	12	520	752	101	100	۲7		
Lano Group Flow (vpb)	٥	520	1102	٥	167	٥		
Enter Blocked Intersection	No	No	No	No	No	No		
Liner Diockeu miersection	L off	L off	Loft	Pight	l oft	Pight		
Modian Width(ft)	LEII			Night	12	Night		
Link Offsot(ft)		0	0		13			
Crosswalk Width/ft)		16	16		16			
		10	10		10			
Hoadway Eactor	1 00	1 00	1.04	1 0/	0.06	0.06		
Turning Spood (mph)	1.00	1.00	1.04	1.04	0.90	0.70		
Number of Detectors	10	1	1	10	10	7		
Number of Detectors	Loft	Thru	Thru		Loft			
Loading Detector (ft)	20	50	50		Leit 50			
Trailing Detector (ft)	20	50	50		50			
Detector 1 Position(ft)	0	0	0		0			
Detector 1 Sizo(ft)	20	50	50		50			
Detector 1 Juno								
Detector 1 Channol		CITEX	CI+LX		CI+LX			
Detector 1 Extend (s)	0.0	0.0	0.0		0.0			
Detector 1 Queue (s)	0.0	0.0	0.0		0.0			
Detector 1 Delay (s)	0.0	0.0	0.0		0.0			
	Dorm	0.0	0.0		Dorm			
Protected Dhases	Fellil	1NA 2	1NA 6		Feilii		1	
Protected Flidses	2	Z	0		1		1	
Petrilineu Phases	2	2	6		4			
Switch Dhaco	Z	Z	0		4			
Switch Flidse Minimum Initial (a)	7.0	7.0	7.0		7.0		7.0	
Minimum Split (s)	1.0	12.0	12.0		12.0		12.0	
Total Split (s)	12.0	12.0	12.0		12.0		12.0	
rutar Spiit (S)	0.00	05.0	85.0		25.0		20.0	

Synchro 8 Report Bergmann Associates 2016 Existing AM Peak Hour Page 1

Lanes, Volumes, Timings 1: Snowden Ave & N Highland Ave (Rte 9)

	ሻ	1	ŧ	¥	•	4		
Lane Group	NBL	NBT	SBT	SBR	NEL	NER	ø1	
Total Split (%)	59.1%	59.1%	77.3%		22.7%		18%	
Maximum Green (s)	60.0	60.0	80.0		20.0		15.0	
Yellow Time (s)	4.0	4.0	4.0		4.0		4.0	
All-Red Time (s)	1.0	1.0	1.0		1.0		1.0	
Lost Time Adjust (s)		0.0	0.0		0.0			
Total Lost Time (s)		5.0	5.0		5.0			
Lead/Lag	Lag	Lag					Lead	
Lead-Lag Optimize?	5	5						
Vehicle Extension (s)	3.0	3.0	3.0		3.0		3.0	
Recall Mode	Мах	Мах	Max		None		Мах	
Act Effct Green (s)		60.1	80.1		14.8			
Actuated g/C Ratio		0.57	0.76		0.14			
v/c Ratio		0.30	0.44		0.68			
Control Delay		12.7	5.2		55.1			
Queue Delay		0.0	0.0		0.0			
Total Delay		12.7	5.2		55.1			
LOS		В	А		E			
Approach Delay		12.7	5.2		55.1			
Approach LOS		В	А		E			
Queue Length 50th (ft)		93	111		103			
Queue Length 95th (ft)		140	176		173			
Internal Link Dist (ft)		511	137		564			
Turn Bay Length (ft)								
Base Capacity (vph)		1768	2493		328			
Starvation Cap Reductn		0	0		0			
Spillback Cap Reductn		0	0		0			
Storage Cap Reductn		0	0		0			
Reduced v/c Ratio		0.30	0.44		0.51			
Intersection Summary								
Area Type:	Other							
Cycle Length: 110								
Actuated Cycle Length: 10)4.9							
Natural Cycle: 40								
Control Type: Semi Act-Ur	ncoord							
Maximum v/c Ratio: 0.68								
Intersection Signal Delay:	12.0			Ir	ntersectior	n LOS: B		
Intersection Capacity Utiliz	zation 47.7%	,)		IC	CU Level o	of Service	А	
Analysis Period (min) 15								

Splits and Phases: 1: Snowden Ave & N Highland Ave (Rte 9)

● _{ø1}	ø2	2ø4	
20 s	65 s	25 s	
↓ ø6			
85 s			

0

Intersection

Int Delay, s/veh

Movement SEL SER NEL NET SWT	SWR
Vol, veh/h 0 0 0 185 168	0
Conflicting Peds, #/hr 0 2 0 0 0	0
Sign Control Stop Stop Free Free Free Free	Free
RT Channelized - None - None -	None
Storage Length 0	-
Veh in Median Storage, # 0 0 0	-
Grade, % 0 0 0	-
Peak Hour Factor 83 83 83 83 83	83
Heavy Vehicles, % 2 2 2 6 6	2
Mvmt Flow 0 0 0 223 202	0

Major/Minor	Minor2		Major1		Major2		
Conflicting Flow All	427	204	204	0	-	0	
Stage 1	204	-	-	-	-	-	
Stage 2	223	-	-	-	-	-	
Critical Hdwy	6.42	6.22	4.12	-	-	-	
Critical Hdwy Stg 1	5.42	-	-	-	-	-	
Critical Hdwy Stg 2	5.42	-	-	-	-	-	
Follow-up Hdwy	3.518	3.318	2.218	-	-	-	
Pot Cap-1 Maneuver	584	837	1368	-	-	-	
Stage 1	830	-	-	-	-	-	
Stage 2	814	-	-	-	-	-	
Platoon blocked, %				-	-	-	
Mov Cap-1 Maneuver	582	836	1368	-	-	-	
Mov Cap-2 Maneuver	582	-	-	-	-	-	
Stage 1	829	-	-	-	-	-	
Stage 2	813	-	-	-	-	-	

Approach	SE	NE	SW	
HCM Control Delay, s	0	0	0	
HCM LOS	А			

Minor Lane/Major Mvmt	NEL	NET SE	ELn1	SWT	SWR
Capacity (veh/h)	1368	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	0	-	-
HCM Lane LOS	А	-	А	-	-
HCM 95th %tile Q(veh)	0	-	-	-	-

Lanes, Volumes, Timings 1: Snowden Ave & N Highland Ave (Rte 9)

	*	†	Ŧ	_لر	•	4		
Lane Group	NBL	NBT	SBT	SBR	NEL	NER	ø1	
Lane Configurations		∆ ‡	A 1.		W.			
Volume (vnh)	8	734	608	64	162	19		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900		
Lane Width (ft)	1700	12	1700	1700	1700	13		
Lane Util Eactor	0.95	0.95	0.95	0.95	1.00	1 00		
Ped Bike Factor	0.75	1.00	1.00	0.75	1.00	1.00		
Frt		1.00	0.986		0.986			
Flt Protected		0 000	0.700		0.957			
Satd Flow (prot)	0	3502	3308	0	1782	0		
Flt Permitted	0	0.9/18	5500	0	0.957	U		
Satd Flow (perm)	0	2222	3308	0	1782	0		
Pight Turn on Pod	0	5525	3300	Vas	1702	Vas		
Satd Flow (PTOP)			26	163	5	163		
Link Sneed (mnh)		30	20		30			
Link Distanco (ft)		501	30 217		644			
Travel Time (s)		12 /	217		1/16			
Confl Dods (#/br)	2	13.4	4.7	2	14.0	1		
Dook Hour Eactor	0.00	0 00	0.00	0.00	0 00			
	0.90	0.90	0.90	0.90	0.90	0.90		
Adi Elow (upb)	2 /0	7/0	4 /0	2 /0 4 E	4 /0 14 E	2 /0 10		
Auj. Flow (vpi) Sharad Lana Traffic (%)	0	749	020	00	100	19		
Lano Croup Flow (upb)	٥	757	605	٥	10/	0		
Enter Blocked Intersection	No	757 No	No	No	104 No	No		
Lano Alignmont	Loft	Loft	Loft	Diabt	Loft	Diabt		
Modian Width(ft)	Len			кіупі	12	кіўні		
Lipk Offsot(ft)		0	0		13			
Crocswalk Width(ft)		16	14		14			
		10	10		10			
Hoadway Easter	1 00	1.00	1.04	1.04	0.06	0.06		
Turning Speed (mph)	1.00	1.00	1.04	1.04	0.90	0.90		
Number of Detectors	10	1	1	10	10	9		
Number of Detectors	l Loft	Thru	Thru		Loft			
Loading Detector (ft)	20	F0	FO		Leit			
Trailing Detector (ft)	20	50	50		50			
Detector 1 Desition(ft)	0	0	0		0			
Detector 1 Size(ft)	20	0 E0	0 E0		0 E0			
Detector 1 Size(ii)								
Detector 1 Channel	CI+EX	CI+EX	CI+EX		CI+EX			
Detector 1 Cridinie	0.0	0.0	0.0		0.0			
Detector 1 Exterio (S)	0.0	0.0	0.0		0.0			
Detector 1 Delay (a)	0.0	0.0	0.0		0.0			
	0.0	0.0	0.0		U.U			
Turn Type	Perm	INA 2	INA (Perm		1	
Protected Phases	2	2	6		4		I	
Permilled Phases	2	0	,		4			
Delector Phase	2	2	6		4			
Switch Phase	7.0	7.0	7.0		7.0		7.0	
iviinimum Initial (s)	/.0	1.0	/.0		1.0		/.0	
Minimum Split (s)	12.0	12.0	12.0		12.0		12.0	
Total Split (s)	65.0	65.0	85.0		25.0		20.0	

Synchro 8 Report Bergmann Associates 2016 Existing PM Peak Hour Page 1

Lanes, Volumes, Timings 1: Snowden Ave & N Highland Ave (Rte 9)

	ሻ	1	ŧ	¥	•	4		
Lane Group	NBL	NBT	SBT	SBR	NEL	NER	ø1	
Total Split (%)	59.1%	59.1%	77.3%		22.7%		18%	
Maximum Green (s)	60.0	60.0	80.0		20.0		15.0	
Yellow Time (s)	4.0	4.0	4.0		4.0		4.0	
All-Red Time (s)	1.0	1.0	1.0		1.0		1.0	
Lost Time Adjust (s)		0.0	0.0		0.0			
Total Lost Time (s)		5.0	5.0		5.0			
Lead/Lag	Lag	Lag					Lead	
Lead-Lag Optimize?								
Vehicle Extension (s)	3.0	3.0	3.0		3.0		3.0	
Recall Mode	Мах	Max	Max		None		Max	
Act Effct Green (s)		60.1	80.1		15.4			
Actuated g/C Ratio		0.57	0.76		0.15			
v/c Ratio		0.40	0.27		0.70			
Control Delay		13.9	4.3		56.1			
Queue Delay		0.0	0.0		0.0			
Total Delay		13.9	4.3		56.1			
LOS		В	А		E			
Approach Delay		13.9	4.3		56.1			
Approach LOS		В	А		E			
Queue Length 50th (ft)		143	59		116			
Queue Length 95th (ft)		203	94		191			
Internal Link Dist (ft)		511	137		564			
Turn Bay Length (ft)								
Base Capacity (vph)		1892	2518		342			
Starvation Cap Reductn		0	0		0			
Spillback Cap Reductn		0	0		0			
Storage Cap Reductn		0	0		0			
Reduced v/c Ratio		0.40	0.27		0.54			
Intersection Summary								
Area Type:	Other							
Cycle Length: 110								
Actuated Cycle Length: 10)5.5							
Natural Cycle: 45								
Control Type: Semi Act-Ur	ncoord							
Maximum v/c Ratio: 0.70								
Intersection Signal Delay:	14.6			lr	ntersectior	n LOS: B		
Intersection Capacity Utiliz	zation 44.4%	,)		10	CU Level o	of Service	A	
Analysis Period (min) 15								

Splits and Phases: 1: Snowden Ave & N Highland Ave (Rte 9)

Ø1	ø2	∕ø4	
20 s	65 s	25 s	
ø6			
85 s			

0.2

Intersection

Int Delay, s/veh

Movement	SEL	SER	NEL	NET	SWT	SWR
Vol, veh/h	1	2	2	229	74	1
Conflicting Peds, #/hr	2	3	2	0	0	2
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	84	84	84	84	84	84
Heavy Vehicles, %	2	2	2	2	6	2
Mvmt Flow	1	2	2	273	88	1

Major/Minor	Minor2		Major1		Major2		
Conflicting Flow All	369	94	92	0	-	0	
Stage 1	92	-	-	-	-	-	
Stage 2	277	-	-	-	-	-	
Critical Hdwy	6.42	6.22	4.12	-	-	-	
Critical Hdwy Stg 1	5.42	-	-	-	-	-	
Critical Hdwy Stg 2	5.42	-	-	-	-	-	
Follow-up Hdwy	3.518	3.318	2.218	-	-	-	
Pot Cap-1 Maneuver	631	963	1503	-	-	-	
Stage 1	932	-	-	-	-	-	
Stage 2	770	-	-	-	-	-	
Platoon blocked, %				-	-	-	
Mov Cap-1 Maneuver	627	959	1500	-	-	-	
Mov Cap-2 Maneuver	627	-	-	-	-	-	
Stage 1	930	-	-	-	-	-	
Stage 2	767	-	-	-	-	-	

Approach	SE	NE	SW	
HCM Control Delay, s	9.4	0.1	0	
HCM LOS	А			

Minor Lane/Major Mvmt	NEL	NET S	ELn1	SWT	SWR
Capacity (veh/h)	1500	-	815	-	-
HCM Lane V/C Ratio	0.002	-	0.004	-	-
HCM Control Delay (s)	7.4	0	9.4	-	-
HCM Lane LOS	А	А	А	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

Appendix E

Detailed Level of Service Analysis Results

• 2019 No-Build Conditions



Lanes, Volumes, Timings 1: Snowden Ave & N Highland Ave (Rte 9)

	*	Ť	Ļ	¥	•	4		
Lane Group	NBI	NBT	SBT	SBR	NEL	NFR	<i>м</i> 1	
Lane Configurations		<u>_</u>	A1	JUN	M			
Volumo (unb)	12	N T 525	051	150	120	20		
Ideal Flow (vphpl)	1000	1000	901 1000	1000	1000	1000		
Lano Width (tt)	1900	1900	1900	1900	1900	1900		
Lane Util Eactor	0.05	0.05	0.05	0.05	1 00	1 00		
Dod Piko Eactor	0.95	1.00	1.00	0.95	1.00	1.00		
		1.00	0.000		0.076			
FIL Elt Drotoctod		0.000	0.900		0.970			
Satd Flow (prot)	0	2220	2256	0	0.900	0		
Salu. Flow (plot)	0	0 0 2 2	3230	0	0.060	0		
Sate Flow (porm)	0	2005	2256	0	0.900	0		
Dight Turn on Dod	0	2000	3230	Voc	1007	Voc		
Sate Flow (DTOD)			10	162	0	162		
Salu. FIUW (RTUR)		20	42		0 20			
Link Speeu (IIIpII)		3U E01	3U 017		3U 4 4 4			
LINK DISIANCE (IL)		571 124	217		044			
Confl Dode (#/br)	1	13.4	4.9	1	14.0	1		
CUTIII. PEUS. (#/Nf)		0.07	0.07		0.07			
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97		
Heavy venicies (%)	9%	8%	5%	3% 155	0%	22%		
Adj. Flow (Vpn)	12	54 I	980	155	142	30		
Shared Lane Trailic (%)	0	EE 0	1105	0	170	0		
Lane Group Flow (vpn)	U	553	1135	U	I/Z	U		
Enter Blocked Intersection	INO	INO	INO	N0 Diatest	INO	N0 Dialat		
Lane Alignment	Leit	Leit	Leit	Right	Leit	Right		
Median Width(ft)		0	0		13			
		0	0		0			
Crosswalk Width(ft)		16	16		16			
Two way Left Turn Lane	1.00	1			<u> </u>			
Headway Factor	1.00	1.00	1.04	1.04	0.96	0.96		
Turning Speed (mpn)	15	4	4	15	15	9		
Number of Detectors	1	1	1		1			
Detector Template	Left	Thru	Thru		Left			
Leading Detector (ft)	20	50	50		50			
Trailing Detector (ft)	0	0	0		0			
Detector 1 Position(ft)	0	0	0		0			
Detector 1 Size(ft)	20	50	50		50			
Detector 1 Type	CI+Ex	CI+Ex	CI+Ex		CI+Ex			
Detector 1 Channel								
Detector 1 Extend (s)	0.0	0.0	0.0		0.0			
Detector 1 Queue (s)	0.0	0.0	0.0		0.0			
Detector 1 Delay (s)	0.0	0.0	0.0		0.0			
Turn Type	Perm	NA	NA		Perm			
Protected Phases	_	2	6				1	
Permitted Phases	2				4			
Detector Phase	2	2	6		4			
Switch Phase								
Minimum Initial (s)	7.0	7.0	7.0		7.0		7.0	
Minimum Split (s)	12.0	12.0	12.0		12.0		12.0	
Total Split (s)	65.0	65.0	85.0		25.0		20.0	

Synchro 8 Report Bergmann Associates 2019 No Build AM Peak Hour Page 1

Lanes, Volumes, Timings 1: Snowden Ave & N Highland Ave (Rte 9)

	1	1	Ļ	¥	•	4		
Lane Group	NBL	NBT	SBT	SBR	NEL	NER	ø1	
Total Split (%)	59.1%	59.1%	77.3%		22.7%		18%	
Maximum Green (s)	60.0	60.0	80.0		20.0		15.0	
Yellow Time (s)	4.0	4.0	4.0		4.0		4.0	
All-Red Time (s)	1.0	1.0	1.0		1.0		1.0	
Lost Time Adjust (s)		0.0	0.0		0.0			
Total Lost Time (s)		5.0	5.0		5.0			
Lead/Lag	Lag	Lag					Lead	
Lead-Lag Optimize?	Ū	Ū						
Vehicle Extension (s)	3.0	3.0	3.0		3.0		3.0	
Recall Mode	Max	Мах	Max		None		Max	
Act Effct Green (s)		60.1	80.1		15.1			
Actuated g/C Ratio		0.57	0.76		0.14			
v/c Ratio		0.31	0.46		0.69			
Control Delay		12.9	5.4		55.6			
Queue Delay		0.0	0.0		0.0			
Total Delay		12.9	5.4		55.6			
LOS		В	А		E			
Approach Delay		12.9	5.4		55.6			
Approach LOS		В	А		E			
Queue Length 50th (ft)		97	118		106			
Queue Length 95th (ft)		144	183		178			
Internal Link Dist (ft)		511	137		564			
Turn Bay Length (ft)								
Base Capacity (vph)		1761	2489		327			
Starvation Cap Reductn		0	0		0			
Spillback Cap Reductn		0	0		0			
Storage Cap Reductn		0	0		0			
Reduced v/c Ratio		0.31	0.46		0.53			
Intersection Summary								
Area Type:	Other							
Cycle Length: 110								
Actuated Cycle Length: 10	5.2							
Natural Cycle: 40								
Control Type: Semi Act-Ur	ncoord							
Maximum v/c Ratio: 0.69								
Intersection Signal Delay:	12.3			Ir	ntersectior	n LOS: B		
Intersection Capacity Utiliz	ation 48.9%	,)		10	CU Level o	of Service	А	
Analysis Period (min) 15								

Splits and Phases: 1: Snowden Ave & N Highland Ave (Rte 9)

Øı	ø2	2ø4	
20 s	65 s	25 s	
↓ ø6			
85 s			
0

Intersection

Movement SEL SER NEL NET SWT	SWR
Vol, veh/h 0 0 0 191 173	0
Conflicting Peds, #/hr 0 2 0 0 0	0
Sign Control Stop Stop Free Free Free Free	Free
RT Channelized - None - None -	None
Storage Length 0	-
Veh in Median Storage, # 0 0 0	-
Grade, % 0 0 0	-
Peak Hour Factor 83 83 83 83	83
Heavy Vehicles, % 2 2 2 6 6	2
Mvmt Flow 0 0 0 230 208	0

Major/Minor	Minor2		Major1		Major2		
Conflicting Flow All	440	210	210	0	-	0	
Stage 1	210	-	-	-	-	-	
Stage 2	230	-	-	-	-	-	
Critical Hdwy	6.42	6.22	4.12	-	-	-	
Critical Hdwy Stg 1	5.42	-	-	-	-	-	
Critical Hdwy Stg 2	5.42	-	-	-	-	-	
Follow-up Hdwy	3.518	3.318	2.218	-	-	-	
Pot Cap-1 Maneuver	574	830	1361	-	-	-	
Stage 1	825	-	-	-	-	-	
Stage 2	808	-	-	-	-	-	
Platoon blocked, %				-	-	-	
Mov Cap-1 Maneuver	572	829	1361	-	-	-	
Mov Cap-2 Maneuver	572	-	-	-	-	-	
Stage 1	824	-	-	-	-	-	
Stage 2	807	-	-	-	-	-	

Approach	SE	NE	SW	
HCM Control Delay, s	0	0	0	
HCM LOS	А			

Minor Lane/Major Mvmt	NEL	NET SE	ELn1	SWT	SWR
Capacity (veh/h)	1361	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	0	-	-
HCM Lane LOS	А	-	А	-	-
HCM 95th %tile Q(veh)	0	-	-	-	-

	1	†	ŧ	_لر	•	4		
Lane Group	NBL	NBT	SBT	SBR	NEL	NER	ø1	
Lane Configurations		≜ 12	A 1.		¥.			
Volume (vph)	8	756	626	66	167	20		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900		
Lane Width (ft)	12	12	11	11	13	13		
Lane Util Factor	0.95	0.95	0.95	0.95	1 00	1 00		
Ped Bike Factor	0.70	1 00	1 00	0.70	1.00	1.00		
Frt			0.986		0.986			
Flt Protected		0 999	0.700		0.957			
Satd Flow (prot)	0	3502	3308	0	1782	0		
Flt Permitted	Ű	0 948	0000	Ŭ	0.957	Ū		
Satd Flow (perm)	0	3323	3308	0	1782	0		
Right Turn on Red	Ű	0020	0000	Yes	1702	Yes		
Satd Flow (RTOR)			26	100	5	100		
Link Sneed (mnh)		30	30		30			
Link Distance (ft)		591	217		644			
Travel Time (s)		13.4	49		14.6			
Confl Peds (#/hr)	3	13.7	7.7	3	14.0	1		
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98		
Heavy Vehicles (%)	2%	3%	4%	2%	۵.70 4%	2%		
Adi Flow (vnh)	270	771	639	67	170	2/0		
Shared Lane Traffic (%)	0	,,,,	007	07	170	20		
Lane Group Flow (vph)	0	779	706	0	190	0		
Enter Blocked Intersection	No	No	No	No	No	No		
Lane Alignment	Left	Left	Left	Right	Left	Right		
Median Width(ft)	Lon	0	0	Right	13	rugin		
Link Offset(ft)		0	0		0			
Crosswalk Width(ft)		16	16		16			
Two way Left Turn Lane		10	10		10			
Headway Eactor	1 00	1 00	1 0/	1 0/	0.96	0.96		
Turning Speed (mnh)	1.00	1.00	1.04	1.04	15	0.70		
Number of Detectors	1	1	1	15	1	/		
Number of Detectors	l ≙ft	Thru	Thru		ا ft			
Leading Detector (ft)	20	50	50		50			
Trailing Detector (ft)	20	0	0		0			
Detector 1 Position(ft)	0	0	0		0			
Detector 1 Size(ft)	20	50	50		50			
Detector 1 Type	CI+Ex	CI+Ex	CI+Ex		CI+Ex			
Detector 1 Channel								
Detector 1 Extend (s)	0.0	0.0	0.0		0.0			
Detector 1 Queue (s)	0.0	0.0	0.0		0.0			
Detector 1 Delay (s)	0.0	0.0	0.0		0.0			
Turn Tyng	Dorm	0.0 NA	NA		Dorm			
Protected Phases	1 CHII	2	6		I CIIII		1	
Protected Phases	2	Z	0		1		I	
Dotoctor Dhaso	2	C	6		4			
Switch Dhase	Z	Z	0		4			
Minimum Initial (c)	70	7.0	7.0		70		70	
Minimum Split (s)	1.0	12.0	/.U 12.0		12.0		12.0	
Total Split (s)	12.0	12.0	12.0		12.0		12.0	
i utal spilit (s)	0.00	0.00	0.00		Z0.0		20.0	

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	*1	1	ŧ	¥	•	4				
Lane Group	NBL	NBT	SBT	SBR	NEL	NER	ø1			
Total Split (%)	59.1%	59.1%	77.3%		22.7%		18%			
Maximum Green (s)	60.0	60.0	80.0		20.0		15.0			
Yellow Time (s)	4.0	4.0	4.0		4.0		4.0			
All-Red Time (s)	1.0	1.0	1.0		1.0		1.0			
Lost Time Adjust (s)		0.0	0.0		0.0					
Total Lost Time (s)		5.0	5.0		5.0					
Lead/Lag	Lag	Lag					Lead			
Lead-Lag Optimize?	Ĭ	Ŭ								
Vehicle Extension (s)	3.0	3.0	3.0		3.0		3.0			
Recall Mode	Max	Max	Max		None		Max			
Act Effct Green (s)		60.0	80.1		15.6					
Actuated g/C Ratio		0.57	0.76		0.15					
v/c Ratio		0.41	0.28		0.71					
Control Delay		14.1	4.4		56.6					
Queue Delay		0.0	0.0		0.0					
Total Delay		14.1	4.4		56.6					
LOS		В	А		E					
Approach Delay		14.1	4.4		56.6					
Approach LOS		В	А		E					
Queue Length 50th (ft)		149	63		121					
Queue Length 95th (ft)		210	98		197					
Internal Link Dist (ft)		511	137		564					
Turn Bay Length (ft)										
Base Capacity (vph)		1887	2512		341					
Starvation Cap Reductn		0	0		0					
Spillback Cap Reductn		0	0		0					
Storage Cap Reductn		0	0		0					
Reduced v/c Ratio		0.41	0.28		0.56					
Intersection Summary										
Area Type:	Other									
Cycle Length: 110										
Actuated Cycle Length: 10	5.7									
Natural Cycle: 45										
Control Type: Semi Act-Ur	ncoord									
Maximum v/c Ratio: 0.71										
Intersection Signal Delay:	14.9			Ir	ntersectior	LOS: B				
Intersection Capacity Utiliz	ation 45.3%	0		10	CU Level o	of Service	А			
Analysis Period (min) 15										

Splits and Phases: 1: Snowden Ave & N Highland Ave (Rte 9)

Ø1	ø2	∕ø4	
20 s	65 s	25 s	
ø6			
85 s			

Intersection

Movement	SEL	SER	NEL	NET	SWT	SWR
Vol, veh/h	1	2	2	236	76	1
Conflicting Peds, #/hr	2	3	2	0	0	2
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	84	84	84	84	84	84
Heavy Vehicles, %	2	2	2	2	6	2
Mvmt Flow	1	2	2	281	90	1

Major/Minor	Minor2		Major1		Major2		
Conflicting Flow All	380	96	95	0	-	0	
Stage 1	94	-	-	-	-	-	
Stage 2	286	-	-	-	-	-	
Critical Hdwy	6.42	6.22	4.12	-	-	-	
Critical Hdwy Stg 1	5.42	-	-	-	-	-	
Critical Hdwy Stg 2	5.42	-	-	-	-	-	
Follow-up Hdwy	3.518	3.318	2.218	-	-	-	
Pot Cap-1 Maneuver	622	960	1499	-	-	-	
Stage 1	930	-	-	-	-	-	
Stage 2	763	-	-	-	-	-	
Platoon blocked, %				-	-	-	
Mov Cap-1 Maneuver	618	956	1497	-	-	-	
Mov Cap-2 Maneuver	618	-	-	-	-	-	
Stage 1	928	-	-	-	-	-	
Stage 2	760	-	-	-	-	-	

Approach	SE	NE	SW	
HCM Control Delay, s	9.5	0.1	0	
HCM LOS	А			

Minor Lane/Major Mvmt	NEL	NET S	SELn1	SWT	SWR
Capacity (veh/h)	1497	-	809	-	-
HCM Lane V/C Ratio	0.002	-	0.004	-	-
HCM Control Delay (s)	7.4	0	9.5	-	-
HCM Lane LOS	А	А	А	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

Appendix F

Detailed Level of Service Analysis Results

• 2019 Full Build Conditions



	1	†	Ŧ	¥	•	4		
Lane Group	NBL	NBT	SBT	SBR	NEL	NER	ø1	
Lane Configurations		≜ î,	4 15		W.			
Volume (vph)	26	525	951	168	184	65		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900		
Lane Width (ft)	12	12	11	11	13	13		
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00		
Ped Bike Factor		1.00	1.00		1.00			
Frt			0.977		0.965			
Flt Protected		0.998	01777		0.964			
Satd. Flow (prot)	0	3340	3246	0	1704	0		
Elt Permitted		0.858	0210	Ŭ	0.964	Ű		
Satd. Flow (perm)	0	2872	3246	0	1704	0		
Right Turn on Red		2072	0210	Yes		Yes		
Satd. Flow (RTOR)			48		14			
Link Speed (mph)		30	30		30			
Link Distance (ft)		591	217		644			
Travel Time (s)		13.4	4.9		14.6			
Confl. Peds. (#/hr)	1	.0.1	,	1		1		
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97		
Heavy Vehicles (%)	5%	8%	5%	3%	5%	12%		
Adi, Flow (vph)	27	541	980	173	190	67		
Shared Lane Traffic (%)	27	011	,00	170	170	07		
Lane Group Flow (vph)	0	568	1153	0	257	0		
Enter Blocked Intersection	No	No	No	No	No	No		
Lane Alignment	Left	Left	Left	Right	Left	Right		
Median Width(ft)	Lon	0	0	rugin	13	rugitt		
Link Offset(ft)		0	0		0			
Crosswalk Width(ft)		16	16		16			
Two way Left Turn Lane		10	10		10			
Headway Factor	1.00	1.00	1.04	1.04	0.96	0.96		
Turning Speed (mph)	15			15	15	9		
Number of Detectors	1	1	1		1			
Detector Template	l eft	Thru	Thru		Left			
Leading Detector (ft)	20	50	50		50			
Trailing Detector (ft)	0	0	0		0			
Detector 1 Position(ft)	0	0	0		0			
Detector 1 Size(ft)	20	50	50		50			
Detector 1 Type	CI+Ex	CI+Ex	CI+Ex		CI+Ex			
Detector 1 Channel								
Detector 1 Extend (s)	0.0	0.0	0.0		0.0			
Detector 1 Queue (s)	0.0	0.0	0.0		0.0			
Detector 1 Delay (s)	0.0	0.0	0.0		0.0			
Turn Type	Perm	NA	NA		Perm			
Protected Phases		2	6				1	
Permitted Phases	2	_	Ŭ		4			
Detector Phase	2	2	6		4			
Switch Phase	_	_	Ŭ					
Minimum Initial (s)	7.0	7.0	7.0		7.0		7.0	
Minimum Split (s)	12.0	12.0	12.0		12.0		12.0	
Total Split (s)	65.0	65.0	85.0		25.0		20.0	

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	1	1	Ļ	¥	•	4			
Lane Group	NBL	NBT	SBT	SBR	NEL	NER	ø1		
Total Split (%)	59.1%	59.1%	77.3%		22.7%		18%		
Maximum Green (s)	60.0	60.0	80.0		20.0		15.0		
Yellow Time (s)	4.0	4.0	4.0		4.0		4.0		
All-Red Time (s)	1.0	1.0	1.0		1.0		1.0		
Lost Time Adjust (s)		0.0	0.0		0.0				
Total Lost Time (s)		5.0	5.0		5.0				
Lead/Lag	Lag	Lag					Lead		
Lead-Lag Optimize?	Ū	Ū							
Vehicle Extension (s)	3.0	3.0	3.0		3.0		3.0		
Recall Mode	Max	Max	Max		None		Max		
Act Effct Green (s)		60.1	80.1		18.4				
Actuated g/C Ratio		0.55	0.74		0.17				
v/c Ratio		0.36	0.48		0.85				
Control Delay		14.5	6.4		67.4				
Queue Delay		0.0	0.0		0.0				
Total Delay		14.5	6.4		67.4				
LOS		В	А		E				
Approach Delay		14.5	6.4		67.4				
Approach LOS		В	А		E				
Queue Length 50th (ft)		113	148		166				
Queue Length 95th (ft)		152	187		#297				
Internal Link Dist (ft)		511	137		564				
Turn Bay Length (ft)									
Base Capacity (vph)		1589	2407		325				
Starvation Cap Reductn		0	0		0				
Spillback Cap Reductn		0	0		0				
Storage Cap Reductn		0	0		0				
Reduced v/c Ratio		0.36	0.48		0.79				
Intersection Summary									
Area Type:	Other								
Cycle Length: 110	0 5								
Actuated Cycle Length: 10	8.5								
Natural Cycle: 45									
Maximum v/c Ratio: 0.85	ICOORD								
Intersection Signal Delay: 16.7 Intersection LOS: B									
Intersection Capacity Utiliz	on Capacity Utilization 56.3% ICU Level of Service B								
Analysis Period (min) 15									
# 95th percentile volume exceeds capacity, queue may be longer.									
Queue shown is maxim	um after tw	o cycles.	j	5					
Splits and Phases: 1: Sr	nowden Ave	e & N Hiq	hland Ave	(Rte 9)					

	5			
● _{ø1}	ø2		Ø4	
20 s	65 s		25 s	
▼ ø6				
85 s				

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Intersection

Movement	SEL	SER	NEL	NET	SWT	SWR
Vol, veh/h	82	9	4	191	173	32
Conflicting Peds, #/hr	0	2	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	83	83	83	83	83	83
Heavy Vehicles, %	2	2	2	6	6	2
Mvmt Flow	99	11	5	230	208	39

Major/Minor	Minor2		Major1		Major2		
Conflicting Flow All	470	230	249	0	-	0	
Stage 1	230	-	-	-	-	-	
Stage 2	240	-	-	-	-	-	
Critical Hdwy	6.42	6.22	4.12	-	-	-	
Critical Hdwy Stg 1	5.42	-	-	-	-	-	
Critical Hdwy Stg 2	5.42	-	-	-	-	-	
Follow-up Hdwy	3.518	3.318	2.218	-	-	-	
Pot Cap-1 Maneuver	552	809	1317	-	-	-	
Stage 1	808	-	-	-	-	-	
Stage 2	800	-	-	-	-	-	
Platoon blocked, %				-	-	-	
Mov Cap-1 Maneuver	548	808	1317	-	-	-	
Mov Cap-2 Maneuver	548	-	-	-	-	-	
Stage 1	807	-	-	-	-	-	
Stage 2	795	-	-	-	-	-	

Approach	SE	NE	SW	
HCM Control Delay, s	12.9	0.2	0	
HCM LOS	В			

Minor Lane/Major Mvmt	NEL	NET SELn1	SWT	SWR
Capacity (veh/h)	1317	- 566	-	-
HCM Lane V/C Ratio	0.004	- 0.194	-	-
HCM Control Delay (s)	7.7	0 12.9	-	-
HCM Lane LOS	А	A B	-	-
HCM 95th %tile Q(veh)	0	- 0.7	-	-

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Lane Group	NBL	NBT	SBT	SBR	NEL	NER	ø1		
Lane Configurations		.at≜	≜1 5		W.				
Volume (vph)	49	756	626	118	199	46			
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900			
Lane Width (ft)	12	12	11	11	13	13			
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00			
Ped Bike Factor		1.00	1.00		1.00				
Frt			0.976		0.975				
Flt Protected		0.997	01770		0.961				
Satd. Flow (prot)	0	3496	3273	0	1771	0			
Flt Permitted		0.853	0270		0.961	Ű			
Satd. Flow (perm)	0	2991	3273	0	1771	0			
Right Turn on Red		2771	0270	Yes		Yes			
Satd, Flow (RTOR)			52		9				
Link Speed (mph)		30	30		30				
Link Distance (ft)		591	217		644				
Travel Time (s)		13.4	4 9		14.6				
Confl Peds (#/hr)	3	10.1	1.7	3	11.0	1			
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98			
Heavy Vehicles (%)	2%	3%	4%	2%	4%	2%			
Adi, Flow (vph)	50	771	639	120	203	47			
Shared Lane Traffic (%)	00	,,,	007	120	200	1			
Lane Group Flow (vnh)	0	821	759	0	250	0			
Enter Blocked Intersection	No	No	No	No	No	No			
Lane Alignment	Left	Left	Left	Right	Left	Right			
Median Width(ft)	Lon	0	0	ragin	13	rugin			
Link Offset(ft)		0	0		0				
Crosswalk Width(ft)		16	16		16				
Two way Left Turn Lane		10	10		10				
Headway Eactor	1 00	1 00	1 04	1 04	0.96	0.96			
Turning Speed (mph)	1.00	1.00	1.04	1.04	15	0.70			
Number of Detectors	1	1	1	15	1	1			
Detector Template	l eft	Thru	Thru		l eft				
Leading Detector (ft)	20	50	50		50				
Trailing Detector (ft)	0	0	0		0				
Detector 1 Position(ft)	0	0	0		0				
Detector 1 Size(ft)	20	50	50		50				
Detector 1 Type	CI+Ex	CI+Ex	CI+Ex		CI+Ex				
Detector 1 Channel	OFFER								
Detector 1 Extend (s)	0.0	0.0	0.0		0.0				
Detector 1 Queue (s)	0.0	0.0	0.0		0.0				
Detector 1 Delay (s)	0.0	0.0	0.0		0.0				
	0.0 Porm	NIA	NIA		Porm				
Protected Phases	i cilli	۲N/۹ ک	6				1		
Permitted Dhases	C	Z	U		1		1		
Detector Dhaco	2	C	6		4				
Switch Dhaso	Z	Z	U		4				
Switch Flidse Minimum Initial (c)	7.0	7.0	7.0		7 0		7.0		
Minimum Split (s)	1.0	12.0	12.0		12.0		12.0		
Total Split (s)	12.0	12.0	12.0		12.0		12.0		
rotal Split (S)	05.0	05.0	85.0		25.0		∠0.0		

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Lane Group	NBL	NBT	SBT	SBR	NEL	NER	ø1		
Total Split (%)	59.1%	59.1%	77.3%		22.7%		18%		
Maximum Green (s)	60.0	60.0	80.0		20.0		15.0		
Yellow Time (s)	4.0	4.0	4.0		4.0		4.0		
All-Red Time (s)	1.0	1.0	1.0		1.0		1.0		
Lost Time Adjust (s)		0.0	0.0		0.0				
Total Lost Time (s)		5.0	5.0		5.0				
Lead/Lag	Lag	Lag					Lead		
Lead-Lag Optimize?	Ĩ	Ŭ							
Vehicle Extension (s)	3.0	3.0	3.0		3.0		3.0		
Recall Mode	Max	Max	Max		None		Мах		
Act Effct Green (s)		60.0	80.0		18.1				
Actuated g/C Ratio		0.56	0.74		0.17				
v/c Ratio		0.49	0.31		0.83				
Control Delay		16.3	4.9		64.4				
Queue Delay		0.0	0.0		0.0				
Total Delay		16.3	4.9		64.4				
LOS		В	А		E				
Approach Delay		16.3	4.9		64.4				
Approach LOS		В	А		E				
Queue Length 50th (ft)		182	79		163				
Queue Length 95th (ft)		235	103		#281				
Internal Link Dist (ft)		511	137		564				
Turn Bay Length (ft)									
Base Capacity (vph)		1660	2436		335				
Starvation Cap Reductn		0	0		0				
Spillback Cap Reductn		0	0		0				
Storage Cap Reductn		0	0		0				
Reduced v/c Ratio		0.49	0.31		0.75				
Intersection Summary									
Area Type:	Other								
Cycle Length: 110	~ .								
Actuated Cycle Length: 10	8.1								
Natural Cycle: 55									
Control Type: Semi Act-Uncoord Maximum v/c Ratio: 0.83									
Intersection Signal Delay: 18.2 Intersection LOS: B									
Intersection Capacity Utiliz	Presection Capacity Utilization 69.8%								
Analysis Period (min) 15	Analysis Period (min) 15								
<pre># 95th percentile volume</pre>	exceeds ca	apacity, q	ueue mav	be long	er.				
Queue shown is maxim	um after tw	o cycles.							
Splits and Phases: 1: Sr	nowden Ave	e & N Hiq	hland Ave	(Rte 9)					

e _{a1}	M #1	04	
20 s	65 s	25 s	
↓ ø6			
85 s			

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Intersection

Movement	SEL	SER	NEL	NET	SWT	SWR
Vol, veh/h	58	7	10	236	76	93
Conflicting Peds, #/hr	2	3	2	0	0	2
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	84	84	84	84	84	84
Heavy Vehicles, %	2	2	2	2	6	2
Mvmt Flow	69	8	12	281	90	111

Major/Minor	Minor2		Major1		Major2		
Conflicting Flow All	454	151	204	0	-	0	
Stage 1	149	-	-	-	-	-	
Stage 2	305	-	-	-	-	-	
Critical Hdwy	6.42	6.22	4.12	-	-	-	
Critical Hdwy Stg 1	5.42	-	-	-	-	-	
Critical Hdwy Stg 2	5.42	-	-	-	-	-	
Follow-up Hdwy	3.518	3.318	2.218	-	-	-	
Pot Cap-1 Maneuver	564	895	1368	-	-	-	
Stage 1	879	-	-	-	-	-	
Stage 2	748	-	-	-	-	-	
Platoon blocked, %				-	-	-	
Mov Cap-1 Maneuver	556	891	1366	-	-	-	
Mov Cap-2 Maneuver	556	-	-	-	-	-	
Stage 1	877	-	-	-	-	-	
Stage 2	739	-	-	-	-	-	

Approach	SE	NE	SW	
HCM Control Delay, s	12.2	0.3	0	
HCM LOS	В			

Minor Lane/Major Mvmt	NEL	NET SELn1	SWT	SWR
Capacity (veh/h)	1366	- 579	-	-
HCM Lane V/C Ratio	0.009	- 0.134	-	-
HCM Control Delay (s)	7.7	0 12.2	-	-
HCM Lane LOS	А	A B	-	-
HCM 95th %tile Q(veh)	0	- 0.5	-	-

Appendix G

Detailed Level of Service Analysis Results

• 2019 Full Build with Signal Retiming



	1	†	ŧ	لر	•	4			
Lane Group	NBL	NBT	SBT	SBR	NEL	NER	ø1		
Lane Configurations			≜1 6		W.				
Volume (vph)	26	525	951	168	184	65			
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900			
Lane Width (ft)	12	12	11	11	13	13			
Lane Util Eactor	0.95	0.95	0.95	0.95	1 00	1 00			
Ped Bike Factor	0.70	1 00	1 00	0.70	1.00	1.00			
Frt		1.00	0 977		0.965				
Flt Protected		0 998	0.777		0.964				
Satd Flow (prot)	0	3340	3246	0	1704	0			
Flt Permitted	Ű	0.859	0210	Ŭ	0 964	Ŭ			
Satd Flow (perm)	0	2875	3246	0	1704	0			
Right Turn on Red	U	2070	0210	Yes	1701	Yes			
Satd Flow (RTOR)			40	105	15	105			
Link Sneed (mnh)		30	30		30				
Link Distance (ft)		591	217		644				
Travel Time (s)		13.4	49		14.6				
Confl Peds (#/hr)	1	10.7	т./	1	17.0	1			
Peak Hour Factor	0.97	0.97	0 97	0.97	0.97	0.97			
Heavy Vehicles (%)	5%	8%	5%	3%	5%	12%			
Adi Flow (vnh)	27	5/1	980	173	190	67			
Shared Lane Traffic (%)	21	JTI	700	175	170	07			
Lane Group Flow (vph)	0	568	1153	0	257	0			
Enter Blocked Intersection	No	No	No	No	No	No			
Lane Alianment	L off	Left	Left	Right	Left	Right			
Median Width(ft)	Len	0		Night	13	Night			
Link Offsot/ft)		0	0		15				
Crosswalk Width(ft)		16	16		16				
Two way Loft Turn Lang		10	10		10				
Hoadway Eactor	1 00	1 00	1.0/	1 0/	0.06	0.06			
Turning Speed (mph)	1.00	1.00	1.04	1.04	0.70	0.70			
Number of Detectors	1	1	1	IJ	1	7			
Number of Detectors	ا ft	Thru	Thru		ı ft				
Loading Dotoctor (ft)	20	50	50		50				
Trailing Detector (II)	20	50	0		0				
Dotoctor 1 Position/ft)	0	0	0		0				
Detector 1 Sizo(ft)	20	50	50		50				
Detector 1 Jize(II)									
Detector 1 Channol	CITLA	CITLA	CITEX		CITLA				
Detector 1 Extend (c)	0.0	0.0	0.0		0.0				
Detector 1 Ouque (s)	0.0	0.0	0.0		0.0				
Detector 1 Delay (s)	0.0	0.0	0.0		0.0				
Turn Tuno	Dorm	0.0	0.0		Dorm				
Protoctod Dhasos	Fellil	INA 2			Felli		1		
Protected Phases	ſ	Z	0		1		I		
Permilleu PridSes	2	2	L		4				
Delector Phase	2	2	0		4				
Switch Phase	7.0	7.0	7.0		7.0		7.0		
Minimum Split (s)	1.0	12.0	/.0		12.0		12.0		
Total Split (S)	12.0	12.0	12.0		12.0		12.0		
i olai Spiit (S)	59.0	59.0	79.0		31.0		20.0		

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	ሻ	Ť	Ŧ	¥	•	4			
Lane Group	NBL	NBT	SBT	SBR	NEL	NER	ø1		
Total Split (%)	53.6%	53.6%	71.8%		28.2%		18%		
Maximum Green (s)	54.0	54.0	74.0		26.0		15.0		
Yellow Time (s)	4.0	4.0	4.0		4.0		4.0		
All-Red Time (s)	1.0	1.0	1.0		1.0		1.0		
Lost Time Adjust (s)		0.0	0.0		0.0				
Total Lost Time (s)		5.0	5.0		5.0				
Lead/Lag	Lag	Lag					Lead		
Lead-Lag Optimize?		Ŭ							
Vehicle Extension (s)	3.0	3.0	3.0		3.0		3.0		
Recall Mode	Max	Мах	Max		None		Max		
Act Effct Green (s)		54.1	74.2		19.5				
Actuated g/C Ratio		0.52	0.72		0.19				
v/c Ratio		0.38	0.49		0.77				
Control Delay		16.4	7.6		53.7				
Queue Delay		0.0	0.0		0.0				
Total Delay		16.4	7.6		53.7				
LOS		В	А		D				
Approach Delay		16.4	7.6		53.7				
Approach LOS		В	А		D				
Queue Length 50th (ft)		113	149		154				
Queue Length 95th (ft)		173	237		242				
Internal Link Dist (ft)		511	137		564				
Turn Bay Length (ft)									
Base Capacity (vph)		1501	2333		439				
Starvation Cap Reductn		0	0		0				
Spillback Cap Reductn		0	0		0				
Storage Cap Reductn		0	0		0				
Reduced v/c Ratio		0.38	0.49		0.59				
Intersection Summary									
Area Type:	Other								
Cycle Length: 110									
Actuated Cycle Length: 103	3.7								
Natural Cycle: 45									
Control Type: Semi Act-Un	coord								
Maximum v/c Ratio: 0.77									
Intersection Signal Delay: 1	16.1			li	ntersectior	n LOS: B			
Intersection Capacity Utilization	ation 56.3%	, D](CU Level (of Service	B		
Analysis Period (min) 15									

Splits and Phases: 1: Snowden Ave & N Highland Ave (Rte 9)

€ø1	ø2	∕ø4
20 s	59 s	31 s
ø6		
79 s		

Intersection

Movement	SEL	SER	NEL	NET	SWT	SWR
Vol, veh/h	82	9	4	191	173	32
Conflicting Peds, #/hr	0	2	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	83	83	83	83	83	83
Heavy Vehicles, %	2	2	2	6	6	2
Mvmt Flow	99	11	5	230	208	39

Major/Minor	Minor2		Major1		Major2		
Conflicting Flow All	470	230	249	0	-	0	
Stage 1	230	-	-	-	-	-	
Stage 2	240	-	-	-	-	-	
Critical Hdwy	6.42	6.22	4.12	-	-	-	
Critical Hdwy Stg 1	5.42	-	-	-	-	-	
Critical Hdwy Stg 2	5.42	-	-	-	-	-	
Follow-up Hdwy	3.518	3.318	2.218	-	-	-	
Pot Cap-1 Maneuver	552	809	1317	-	-	-	
Stage 1	808	-	-	-	-	-	
Stage 2	800	-	-	-	-	-	
Platoon blocked, %				-	-	-	
Mov Cap-1 Maneuver	548	808	1317	-	-	-	
Mov Cap-2 Maneuver	548	-	-	-	-	-	
Stage 1	807	-	-	-	-	-	
Stage 2	795	-	-	-	-	-	

Approach	SE	NE	SW	
HCM Control Delay, s	12.9	0.2	0	
HCM LOS	В			

Minor Lane/Major Mvmt	NEL	NET SELn1	SWT	SWR
Capacity (veh/h)	1317	- 566	-	-
HCM Lane V/C Ratio	0.004	- 0.194	-	-
HCM Control Delay (s)	7.7	0 12.9	-	-
HCM Lane LOS	А	A B	-	-
HCM 95th %tile Q(veh)	0	- 0.7	-	-

	1	†	ŧ	¥	•	4			
Lane Group	NBL	NBT	SBT	SBR	NEL	NER	ø1		
Lane Configurations		. ↑↑	A 14		W.				
Volume (vph)	49	756	626	118	199	46			
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900			
Lane Width (ft)	12	12	11	11	13	13			
Lane Util Factor	0.95	0.95	0.95	0.95	1 00	1 00			
Ped Bike Factor	0.70	1 00	1 00	0.70	1.00	1.00			
Frt		1.00	0 976		0.975				
Flt Protected		0 997	0.770		0.961				
Satd Flow (prot)	0	3496	3273	0	1771	0			
Flt Permitted	Ŭ	0.854	0270	Ŭ	0.961	Ŭ			
Satd Flow (perm)	0	2995	3273	0	1771	0			
Right Turn on Red	Ŭ	2770	0270	Yes		Yes			
Satd Flow (RTOR)			44	100	10	100			
Link Speed (mph)		30	30		30				
Link Distance (ft)		591	217		644				
Travel Time (s)		13.4	49		14.6				
Confl Peds (#/hr)	3	10.7	7.7	3	11.0	1			
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98			
Heavy Vehicles (%)	2%	3%	4%	2%	4%	2%			
Adi Flow (vnh)	50	771	639	120	203	47			
Shared Lane Traffic (%)	50	,,,,	007	120	205	11			
Lane Group Flow (vph)	0	821	759	0	250	0			
Enter Blocked Intersection	No	No	No	No	No	No			
Lane Alignment	Left	Left	Left	Right	Left	Right			
Median Width(ft)	Lon	0	0	Right	13	rugin			
Link Offset(ft)		0	0		0				
Crosswalk Width(ft)		16	16		16				
Two way Left Turn Lane		10	10		10				
Headway Eactor	1 00	1 00	1 04	1 04	0.96	0.96			
Turning Speed (mph)	1.00	1.00	1.04	1.04	15	9			
Number of Detectors	1	1	1	10	1	,			
Detector Template	Left	Thru	Thru		Left				
Leading Detector (ft)	20	50	50		50				
Trailing Detector (ft)	0	0	0		0				
Detector 1 Position(ft)	0	0	0		0				
Detector 1 Size(ft)	20	50	50		50				
Detector 1 Type	CI+Ex	CI+Ex	CI+Ex		CI+Ex				
Detector 1 Channel	OFFER	OTLA	OHLX		OTTEX				
Detector 1 Extend (s)	0.0	0.0	0.0		0.0				
Detector 1 Queue (s)	0.0	0.0	0.0		0.0				
Detector 1 Delay (s)	0.0	0.0	0.0		0.0				
	Perm	0.0 ΝΔ	0.0 ΝΔ		Perm				
Protected Phases	I GIIII	2	6		1 CIIII		1		
Permitted Phases	2	2	U		Λ		1		
Detector Phase	2	2	6		4				
Switch Phase	2	2	0		4				
Minimum Initial (c)	7.0	70	7.0		70		70		
Minimum Snlit (s)	12.0	12.0	12.0		12.0		12.0		
Total Split (s)	60.0	60.0	80.0		30.0		20.0		
i otai opiit (s)	00.0	00.0	00.0		30.0		20.0		

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	*1	1	Ļ	¥	•	4			
Lane Group	NBL	NBT	SBT	SBR	NEL	NER	ø1		
Total Split (%)	54.5%	54.5%	72.7%		27.3%		18%		
Maximum Green (s)	55.0	55.0	75.0		25.0		15.0		
Yellow Time (s)	4.0	4.0	4.0		4.0		4.0		
All-Red Time (s)	1.0	1.0	1.0		1.0		1.0		
Lost Time Adjust (s)		0.0	0.0		0.0				
Total Lost Time (s)		5.0	5.0		5.0				
Lead/Lag	Lag	Lag					Lead		
Lead-Lag Optimize?	Ŭ	Ŭ							
Vehicle Extension (s)	3.0	3.0	3.0		3.0		3.0		
Recall Mode	Max	Мах	Max		None		Мах		
Act Effct Green (s)		55.1	75.1		18.9				
Actuated g/C Ratio		0.53	0.72		0.18				
v/c Ratio		0.52	0.32		0.76				
Control Delay		18.0	5.7		54.0				
Queue Delay		0.0	0.0		0.0				
Total Delay		18.0	5.7		54.0				
LOS		В	А		D				
Approach Delay		18.0	5.7		54.0				
Approach LOS		В	А		D				
Queue Length 50th (ft)		179	77		153				
Queue Length 95th (ft)		261	127		240				
Internal Link Dist (ft)		511	137		564				
Turn Bay Length (ft)									
Base Capacity (vph)		1586	2376		434				
Starvation Cap Reductn		0	0		0				
Spillback Cap Reductn		0	0		0				
Storage Cap Reductn		0	0		0				
Reduced v/c Ratio		0.52	0.32		0.58				
Intersection Summary									
Area Type:	Other								
Cycle Length: 110									
Actuated Cycle Length: 104									
Natural Cycle: 55									
Control Type: Semi Act-Unc	coord								
Maximum v/c Ratio: 0.76									
Intersection Signal Delay: 1	7.8			I	ntersectior	LOS: B			
Intersection Capacity Utiliza Analysis Period (min) 15	ation 69.8%	, D		[(CU Level o	of Service	С		

Splits and Phases: 1: Snowden Ave & N Highland Ave (Rte 9)

Ø1	≥¶ ø2	⊅ø4
20 s	60 s	30 s
ø6		
80 s		

Intersection

Movement	SEL	SER	NEL	NET	SWT	SWR
Vol, veh/h	58	7	10	236	76	93
Conflicting Peds, #/hr	2	3	2	0	0	2
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	84	84	84	84	84	84
Heavy Vehicles, %	2	2	2	2	6	2
Mvmt Flow	69	8	12	281	90	111

Major/Minor	Minor2		Major1		Major2		
Conflicting Flow All	454	151	204	0	-	0	
Stage 1	149	-	-	-	-	-	
Stage 2	305	-	-	-	-	-	
Critical Hdwy	6.42	6.22	4.12	-	-	-	
Critical Hdwy Stg 1	5.42	-	-	-	-	-	
Critical Hdwy Stg 2	5.42	-	-	-	-	-	
Follow-up Hdwy	3.518	3.318	2.218	-	-	-	
Pot Cap-1 Maneuver	564	895	1368	-	-	-	
Stage 1	879	-	-	-	-	-	
Stage 2	748	-	-	-	-	-	
Platoon blocked, %				-	-	-	
Mov Cap-1 Maneuver	556	891	1366	-	-	-	
Mov Cap-2 Maneuver	556	-	-	-	-	-	
Stage 1	877	-	-	-	-	-	
Stage 2	739	-	-	-	-	-	

Approach	SE	NE	SW	
HCM Control Delay, s	12.2	0.3	0	
HCM LOS	В			

Minor Lane/Major Mvmt	NEL	NET SELn	I SWT	SWR
Capacity (veh/h)	1366	- 57) -	-
HCM Lane V/C Ratio	0.009	- 0.13	1 -	-
HCM Control Delay (s)	7.7	0 12.	2 -	-
HCM Lane LOS	А	A	3 -	-
HCM 95th %tile Q(veh)	0	- 0.	5 -	-

VILLAGE OF OSSINING	BOARD OF TRUSTEES
In the Matter of the Application of OSSINING RIVER ASSOCIATES, INC.,	PETITION
Petitioner,	to
	Adopt Zone Text Amendments
To adopt zone text amendments which would be applicable in the CDD and PW zoning Districts	

JOSEPH P. ERIOLE, ESQ. THE ERIOLE LAW FIRM, P.C P.O. Box 4031 Kingston, NY 12402 845.417.4267 erioleesq@gmail.com